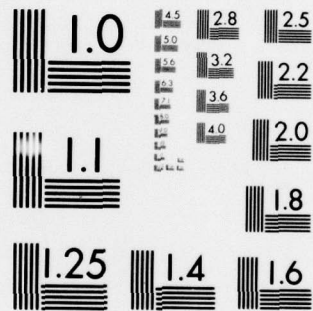


AD-A075 511 CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN IL F/G 13/13
REAL ESTATE COST ESTIMATING TECHNIQUES FOR PL 91-646 RELOCATION--ETC(U)
SEP 79 U R POSKUS , G D STAMAS , S P STAWARZ IAO-RE-7T-1
UNCLASSIFIED CERL-TR-P-103 NL

1 OF 2

AD
A075511





construction
engineering
research
laboratory



United States Army
Corps of Engineers
...Serving the Army
...Serving the Nation

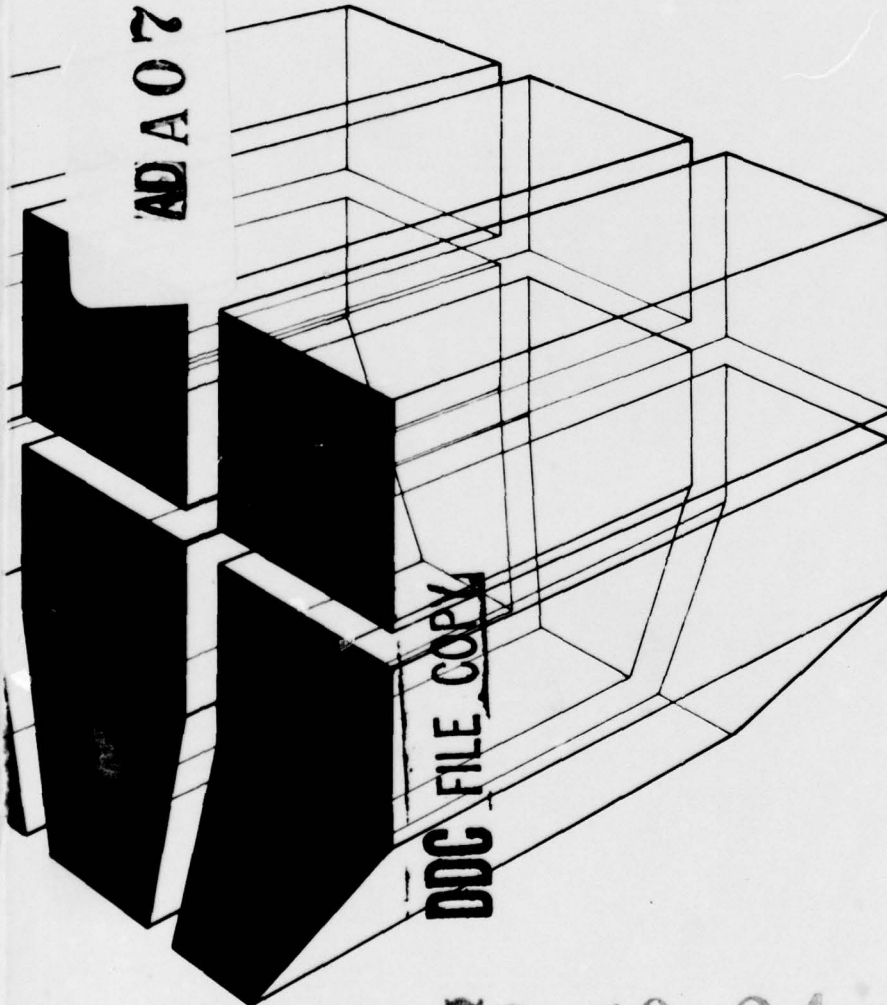
TECHNICAL REPORT P-103
September 1979

REAL ESTATE COST ESTIMATING TECHNIQUES
FOR PL 91-646 RELOCATION COSTS

AD A075511



by
U. R. Poskus
G. D. Stamas
S. P. Stawarz



79 10 24 011

Approved for public release; distribution unlimited.

The contents of this report are not to be used for advertising, publication, or promotional purposes. Citation of trade names does not constitute an official indorsement or approval of the use of such commercial products. The findings of this report are not to be construed as an official Department of the Army position, unless so designated by other authorized documents.

***DESTROY THIS REPORT WHEN IT IS NO LONGER NEEDED
DO NOT RETURN IT TO THE ORIGINATOR***

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER 14 CERL-TR-P-103	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 6 REAL ESTATE COST ESTIMATING TECHNIQUES FOR PL 91-646 RELOCATION COSTS.	9	5. TYPE OF REPORT & PERIOD COVERED FINAL <i>Rept.</i>
7. AUTHOR(s) 10 U. R. Poskus G. D. Stamas S. P. Stawarz	6. PERFORMING ORG. REPORT NUMBER	
9. PERFORMING ORGANIZATION NAME AND ADDRESS U.S. ARMY CONSTRUCTION ENGINEERING RESEARCH LABORATORY P.O. Box 4005, Champaign, IL 61820	8. CONTRACT OR GRANT NUMBER(s) Intra Army Orders RE-7T-1 and RE 77-1	
11. CONTROLLING OFFICE NAME AND ADDRESS	11	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
12. REPORT DATE September 1979	13. NUMBER OF PAGES 189	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) 15 IAO-RE-77-1, IAO-RE-77-1	15. SECURITY CLASS. (of this report) Unclassified	
15a. DECLASSIFICATION/DOWNGRADING SCHEDULE		
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited. 12 191		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES Copies are obtainable from National Technical Information Service Springfield, VA 22151		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) relocation cost estimates Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report documents the development of a predicting model which would better estimate the amount of money required by Districts to com- pensate individuals relocated from their residences, businesses, or farms as a result of U. S. Army Corps of Engineers construction. The predictions are the result of applying the least squares method to previous District and state payment data.		

DD FORM 1 JAN 73 1473

EDITION OF 1 NOV 65 IS OBSOLETE

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

Block 20 continued.

→ Three different approaches for developing the model were attempted. The approach which used Docket Sheet data broken out by Fiscal Years 72 through 76 was selected as having the highest probability for success. Using the information from these Docket Sheets, average total payments were computed by state and by District, and average values were found for each of 15 payment categories. ↗

UNCLASSIFIED

FOREWORD

This work was performed for the Office of the Chief of Engineers (OCE), Real Estate Directorate, Programs Division, under Intra Army Orders RE-7T-1 and RE 77-1. The OCE Technical Monitor was Mr. E. Merli, DAEN-REP.

The work was conducted by the Facilities Systems Division (FS), U.S. Army Construction Engineering Research Laboratory (CERL), under the general supervision of Mr. E. A. Lotz (Chief, FS) and Dr. O. E. Rood, Jr. The Principal Investigator was Mr. U. R. Poskus.

COL J. E. Hays is Commander and Director of CERL, and Dr. L. R. Shaffer is Technical Director.

Accession For	
NTIS GML&I	<input checked="checked" type="checkbox"/>
DOC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Availand/or special
A	

CONTENTS

	<u>Page</u>
DD FORM 1473	1
FOREWORD	3
LIST OF TABLES AND FIGURES	6
 1 INTRODUCTION.....	 15
Background	
References	
Problem Statement	
Objective	
Scope	
Applicability	
Approach	
Mode of Technology Transfer	
 2 CURRENT METHOD OF DERIVING ESTIMATES.....	 19
 3 DOCKET SHEET DATA.....	 20
 4 OVERALL STUDY PLAN.....	 21
Data from All Existing Docket Sheets for FY72 through FY76	
Regression Analysis of Individual Payments	
Docket Sheet Data Broken Out by Fiscal Year	
 5 FISCAL YEAR PAYMENTS.....	 22
Introduction	
Individual Payment Trends FY72 to FY76	
Projections of National Individual Payments FY77 to FY80	
Confidence Intervals for Projection	
Fiscal Year Data -- Active and Final Reports	
 6 PREPARING BUDGETARY ESTIMATES.....	 27
 7 VALIDATION.....	 29
 8 CONCLUSIONS.....	 30
 TABLES AND FIGURES	 31
 APPENDIX A: Summary of Payments by State FY72 to FY76	 65
APPENDIX B: Number of Payments, Applicants, and Amounts	
Paid by State, FY72 to FY76	87
APPENDIX C: Summary of Payments by District FY72 to FY76	102
APPENDIX D: Number of Payments, Applicants, and Amounts	
Paid by District FY72 to FY76	124
APPENDIX E: Docket Sheet Masterfile Analysis by State,	
Summarized by Payment Types	135

CONTENTS (Cont'd)

	<u>Page</u>
APPENDIX F: Docket Sheet Masterfile Analysis by District, Summarized by Payment Types	154
APPENDIX G: Individual Payments Comparisons on a National Level by State and District	171
APPENDIX H: Regional Analysis in Conjunction with Linear Regression	181
APPENDIX I: Equation for Calculating Confidence Intervals	188
DISTRIBUTION	

TABLES

<u>Number</u>		<u>Page</u>
1	Benefits Receivable by Relocation Applicants	31
2	Applicant Types and Payment Categories for Which They May Be Eligible	32
3	Bunched Classes of Payments to Applicants	32
4	Average Total Payment Per Applicant (\$)	33
5	Average Replacement Housing Per Applicant (\$)	33
6	Average Actual Residential Moving Payments (\$)	34
7	Average Fixed Residential Moving Payments (\$)	34
8	Average Actual Business Moving Payments (\$)	35
9	Average Fixed Business Moving Payments (\$)	35
10	Average Actual Farm Moving Payments (\$)	36
11	Average Fixed Farm Moving Payments (\$)	36
12	Average Business Searching Payments (\$)	37
13	Average Farm Searching Payments (\$)	37
14	Section 203 Average Increased Interest Costs Payments (\$)	38
15	Section 203 Average Closing Costs Payments (\$)	38
16	Section 204 Average Rental Payments (\$)	39
17	Section 204 Average Down Payments (\$)	39
18	Least Squares Equations Using Grand Total Averages	40
19	National Payment Averages FY72 through FY76 and Projections FY77 through FY80.	41

TABLES (Cont'd)

<u>Number</u>		<u>Page</u>
20	Individual Payments as a Percent of Total Payments	42
21	Number of Individual Payments by Fiscal Year	42
22	Example of Estimate Using Individual Payments -- Common Distribution	43
23	Example of Estimate Using Individual Payments -- Changed Distribution	43
A1	Average Payment Per Applicant State Data	66
A2	Average Payment Per Applicant by State, Least Squares Equations	67
A3	AMD State Payments FY72 to FY76	68
A4	AMB State Payments FY72 to FY76	69
A5	AMF State Payments FY72 to FY76	70
A6	FMD State Payments FY72 to FY76	71
A7	FMB State Payments FY72 to FY76	72
A8	FMF State Payments FY72 to FY76	73
A9	SB State Payments FY72 to FY76	74
A10	SF State Payments FY72 to FY76	75
A11	RH State Payments FY72 to FY76	76
A12	IIC State Payments FY72 to FY76	77
A13	CC State Payments FY72 to FY76	78
A14	SRP State Payments FY72 to FY76	79
A15	DP State Payments FY72 to FY76	80
A16	GT State Payments FY72 to FY76	81
A17	FY72 Relocation Payments, by State -- Summary of Average Payments	82

TABLES (Cont'd)

<u>Number</u>		<u>Page</u>
A18	FY73 Relocation Payments, by State -- Summary of Average Payments	83
A19	FY74 Relocation Payments, by State -- Summary of Average Payments	84
A20	FY75 Relocation Payments, by State -- Summary of Average Payments	85
A21	FY76 Relocation Payments, by State -- Summary of Average Payments	86
B1	FY72 Relocation Payments, by State	88
B2	FY73 Relocation Payments, by State	91
B3	FY74 Relocation Payments, by State	94
B4	FY75 Relocation Payments, by State	96
B5	FY76 Relocation Payments, by State	99
C1	District Total Average Payments	103
C2	District Least Squares Equations	104
C3	AMD District Payments FY72 to FY76	105
C4	AMB District Payments FY72 to FY76	106
C5	AMF District Payments FY72 to FY76	107
C6	FMD District Payments FY72 to FY76	108
C7	FMB District Payments FY72 to FY76	109
C8	FMF District Payments FY72 to FY76	110
C9	SB District Payments FY72 to FY76	111
C10	SF District Payments FY72 to FY76	112
C11	RH District Payments FY72 to FY76	113
C12	IIC District Payments FY72 to FY76	114

TABLES (Cont'd)

<u>Number</u>		<u>Page</u>
C13	CC District Payments FY72 to FY76	115
C14	SRP District Payments FY72 to FY76	116
C15	DP District Payments FY72 to FY76	117
C16	GT District Payments FY72 to FY76	118
C17	FY72 Relocation Payments, by District	119
C18	FY73 Relocation Payments, by District	120
C19	FY74 Relocation Payments, by District	121
C20	FY75 Relocation Payments, by District	122
C21	FY76 Relocation Payments, by District	123
D1	FY72 Relocation Payments, by District	125
D2	FY73 Relocation Payments, by District	127
D3	FY74 Relocation Payments, by District	129
D4	FY75 Relocation Payments, by District	131
D5	FY76 Relocation Payments, by District	133
E1	State CODE Headings	136
E2	The Criterion Variable Code	137
E3	Summarized Data From All Docket Sheets on the Master File, by States That Have Made Payments to 10 or More Applicants	138
E4	Criterion Variable -- AMD	140
E5	Criterion Variable -- AMB	141
E6	Criterion Variable -- AMF	142
E7	Criterion Variable -- FMD	143
E8	Criterion Variable -- FMB	144

TABLES (Cont'd)

<u>Number</u>		<u>Page</u>
E9	Criterion Variable -- FMF	145
E10	Criterion Variable -- DLB	146
E11	Criterion Variable -- DLF	146
E12	Criterion Variable -- SB	147
E13	Criterion Variable -- SF	148
E14	Criterion Variable -- RH	149
E15	Criterion Variable -- IIC	150
E16	Criterion Variable -- CC	151
E17	Criterion Variable -- SRP	152
E18	Criterion Variable -- DP	153
F1	Summarized Data From All Docket Sheets on the Masterfile, by Districts That Have Made Payments to 10 or More Applicants	155
F2	Definitions of Criterion Variables for Subsequent Data	156
F3	Criterion Variable -- AMD	157
F4	Criterion Variable -- AMB	158
F5	Criterion Variable -- AMF	159
F6	Criterion Variable -- FMD	160
F7	Criterion Variable -- FMB	161
F8	Criterion Variable -- FMF	162
F9	Criterion Variable -- DLB	163
F10	Criterion Variable -- DLF	163
F11	Criterion Variable -- SB	164
F12	Criterion Variable -- SF	165

TABLES (Cont'd)

<u>Number</u>		<u>Page</u>
F13	Criterion Variable -- RH	166
F14	Criterion Variable -- IIC	167
F15	Criterion Variable -- CC	168
F16	Criterion Variable -- SRP	169
F17	Criterion Variable -- DP	170
G1	Distribution of Payment Types	172
G2	Distribution of Relocation Funds Among Payment Types	173
G3	Summed Costs for Docket Sheets Through October 1976	174
G4	Summary of All Docket Sheet Payments Through October 1976, by District	175
G5	Average Payment Per Applicant	176
G6	Average Payment Per Applicant Ascending Values Per District	177
G7	Summary of All Docket Sheet Payments Through October 1976, by State	178
G8	Alphabetic State Listing of Total Amounts Paid, Number of Applicants Paid, and Average Payment Per Applicant	179
G9	Listing By State of Total Amount Paid, Number Applicants Paid, and Ascending Value of Average Payment Per Applicant	180
H1	Residuals for Business Moving Expenses	186
H2	Results of Regression Analysis	187
I1	Confidence Intervals for National Values	189

FIGURES

<u>Number</u>		<u>Page</u>
1	Project Life Conception Through Operation and Maintenance	44
2	PL 91-646 Processes	47
3	Relocation Payment Docket Sheet	49
4	Average Total Payment Per Applicant with Projections and Confidence Intervals	50
5	Average Replacement Housing Payment with Projections and Confidence Intervals	51
6	Average Actual Residential Moving Payments with Projections and Confidence Intervals	52
7	Average Fixed Residential Moving Payments with Projections and Confidence Intervals	53
8	Average Actual Business Moving Payments with Projections and Confidence Intervals	54
9	Average Fixed Business Moving Payments with Projections and Confidence Intervals	55
10	Average Actual Farm Moving Payments with Projections and Confidence Intervals	56
11	Average Fixed Farm Moving Payments with Projections and Confidence Intervals	57
12	Average Business Searching Payments with Projections and Confidence Intervals	58
13	Average Farm Searching Payments with Projections and Confidence Intervals	59
14	Average Increased Interest Payments with Projections and Confidence Intervals	60
15	Average Closing Costs Payments with Projections and Confidence Intervals	61
16	Average Rental Payments with Projections and Confidence Intervals	62

FIGURES (Cont'd)

<u>Number</u>		<u>Page</u>
17	Average Down Payments with Projections and Confidence Intervals	63
18	Example of Confidence Intervals	64
B1	FY76 Relocation Payments, by State	101

REAL ESTATE COST ESTIMATING
TECHNIQUES FOR PL 91-646
RELOCATION COSTS

1 INTRODUCTION

Background

A primary mission of the U.S. Army Corps of Engineers (CE) is the design and construction of many types of projects. This work is the responsibility of both the Directorates of Military Programs and Civil Works within the Office of the Chief of Engineers (OCE). In most construction, especially for Civil Works projects, civilian-owned land must be acquired.

"The Federal Government has the inherent power to acquire land for its constitutional purposes (but) this power can only be exercised at the discretion of Congress. (Furthermore,) no land will be purchased in the name of the United States except under a law authorizing such purchase, (and,) no military department may acquire real property not owned by the United States unless the acquisition is expressly authorized by law."¹

"No request to acquire real estate by transfer, purchase, lease, or condemnation will be considered or approved unless it is established that --

a. The activity to be accommodated is essential to an established mission.

b. Real property under the control of the Army is inadequate to satisfy the requirement.

c. No real property under the control of the Navy or Air Force or other Federal agency is suitable and available for use by the Army on a permit or joint use basis."²

The owner of the acquired land is compensated by the Government through the acquiring CE agency. In most cases, taking this land requires compensating the owner or tenant for losses or expenses that he*

¹ Acquisition of Real Property and Interests Therein, AR 405-10 (Department of the Army, May 1970), p 1-1.

² AR 405-10, p 1-2.

* The masculine pronoun is used throughout this report to represent both genders.

would not have incurred had the land not been acquired. This compensation is a legal right of the owner/tenant as stipulated by Public Law 91-646, The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970.

This compensation covers moving costs, certain business or farm losses incident to relocation, searching costs for new business or farm locations, replacement housing costs, increased interest expenses, closing costs, rental costs, and downpayments. Many of these costs have minimum and/or maximum payments allowed by law (Table 1). Relocation applicants that meet the various criteria outlined by the law are paid after their applications have been submitted and evaluated.

The sequence of events that takes place from CE project inception to completion is outlined in EP 1105-2-10, How U.S. Army Corps of Engineers Projects Are Conceived, Authorized, Funded, and Implemented (March 1975). This study shows how to improve the cost estimate for relocations under PL 91-646, which takes place during Step 18 of the process shown in Figure 1.

PL 91-646 categorizes seven possible types of applicants, with a further differentiation between owners and tenants.

Table 2 outlines the seven applicant types and the payment categories they may be eligible for. Table 3 consolidates data from Table 2, showing "bunched" payments for each applicant type.

References

Regulatory guidance other than PL 91-646 may be found in AR 405-10 and ER 405-1-663, Regulations for Implementation of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (June 1973). AR 405-10 provides general guidance and assigns the Chief of Engineers responsibility for implementing the Act for the Department of the Army. The following three paragraphs are pertinent portions of AR 405-10.

PL 91-646 was approved 2 January 1971 (84 Stat 1894; 1895). Title II of the act sets forth a uniform policy for the fair and equitable treatment of persons displaced as a result of Federal and Federally assisted programs so that such persons shall not suffer disproportionate injuries as a result of programs designed for the benefits of the public as a whole.

The Executive Office of the President, Office of Management and Budget (OMB), has published guidelines for issuing regulations and procedures to implement PL 91-646. Title 10, U.S.C. 2680, which was known as the Resettlement Act, was repealed by Section 220(a) of PL 91-646;

however, Section 220(b) provides that "any rights or liabilities now existing under prior Acts or portions thereof shall not be affected by the repeal of such prior Acts or portions thereof under subsection (a) of this section." Accordingly, resettlement rights existing at the time of the enactment of PL 91-646 will be honored.

The Chief of Engineers, in consonance with his real estate responsibilities, will take those actions necessary to implement and administer the provisions of PL 91-646 and will take appropriate action in connection with any remaining rights under Title 10, U.S.C. 2680.

More specific guidance is provided in ER 405-1-663 (with change 2) dated 25 November 1975. This ER establishes policy and guidance to OCE and to those Divisions and Districts having real estate responsibilities for implementing the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, and for insuring fair, equitable, and uniform treatment of persons displaced by Federal and Federally assisted programs for which the CE has responsibility.

Problem Statement

PL 91-646 relocation costs are a part of total costs for any project for which the CE must acquire land. The total real estate costs (land, PL 91-646 relocation, other relocations, and administration) for a project are quite small when compared to the total project cost (3 to 5 percent on the average). PL 91-646 relocation costs (hereafter called relocation costs) are a small percentage of total real estate costs. Therefore, while the amount of the relocation costs is small in comparison to the total project cost, it is nevertheless a significant amount and must be estimated as accurately as possible.

Since PL 91-646 is so new, there is very little experience in fulfilling its requirements. The law calls for uniformity in its application to valid applicants; however, uniformity is virtually impossible without a standardized method of estimating relocation costs within the CE. Also, the CE must now provide more accurate relocation estimates before a project can be authorized by Congress. Information provided by several Districts indicates that there is currently no uniform method of estimation. Estimates for potential applicants are based on historical payments for a specific area in that District and are modified as needed, based on previous experience.

To insure that relocation payments are more uniform for each District, a method is required which can be used by all Districts having relocation payment responsibility for both civil and military projects. Improving the accuracy of cost estimates requires that the model provide these estimates both quickly and accurately. Since the model would be used by all Districts as a standard estimating tool, uniformity in providing more accurate estimates would be implicit.

Objective

The objective of this work is to develop a cost-estimating technique that will accurately estimate (90 percent confidence interval) relocation payments made under PL 91-646 to persons relocated from land acquired by the CE for military and civil works purposes.

Scope

This study deals only with relocation payments made under Title II of PL 91-646. Relocations of highways, railroads, utility lines, cables, and pipes are not included under this law and will not be considered.

Applicability

The results of this study will be used by Real Estate Division personnel in CE Districts that have the responsibility of estimating and making relocation payments.

Approach

The following approach was used in developing the cost estimating technique:

1. Current estimating methods were studied.
2. Docket Sheet* data were analyzed to determine whether an estimating pattern could be found and whether there were correlations between sets of variables; District and regional differences were sought.
3. Census data were examined to determine whether an estimating model could be developed from demographic county and state data.

Mode of Technology Transfer

The model developed in this report will be distributed to Districts as an Engineer Circular in the 405 series.

*A computer report (see Chapter 3).

2 CURRENT METHOD OF DERIVING ESTIMATES

At most Districts, the current method of deriving project relocation estimates is to first determine the approximate number of tract owners and tenants on the proposed project site (these are potential applicants) and then to multiply this number by an average-per-applicant amount, based on past experience. The product of these two numbers provides the applicant relocation cost estimate for that project. The number of applicants who will be paid in any one fiscal year is the basis for the budget estimate.

The average estimated per-applicant amount appears to be close to the actual average per-applicant amount paid; however, the total funding requested for a fiscal year and the total amount spent are often inconsistent because, quite often, fewer applicants are paid in that fiscal year than expected. This may be the result of problems within the District, problems in scheduling the workload associated with the payments, or action or inaction of the applicants. This situation is internal to the District and is outside the scope of this work.

In conjunction with this research, a flowchart (Figure 2) was developed through which PL 91-646 can be conceptualized.

3 DOCKET SHEET DATA

A computer output report called Title II, PL 91-646 Relocation Payments Docket Sheet (Figure 3), is prepared at OCE from punched cards furnished by a Division/District for each applicant. Fifteen separate payments are recorded on the Docket Sheets:

1. Actual moving costs -- dwelling (AMD)
2. Actual moving costs -- business (AMB)
3. Actual moving costs -- farm (AMF)
4. Fixed moving costs -- dwelling (FMD)
5. Fixed moving costs -- business (FMB)
6. Fixed moving costs -- farm (FMF)
7. Direct loss -- business (DLB)
8. Direct loss -- farm (DLF)
9. Searching costs -- business (SB)
10. Searching costs -- farm (SF)
11. Replacement housing (RH)
12. Increased interest cost (IIC)
13. Closing costs (CC)
14. Rental payments (SRP)
15. Down payments (DP)
16. Total payments (TOTAL)

CERL researchers accessed the master file of these Docket Sheets, and performed various analyses on the data (Chapter 5).

4 OVERALL STUDY PLAN

Three approaches were taken to develop a model which would improve relocation cost estimating. The approach which used Docket Sheet data broken out by fiscal years (FY72 through FY76) was selected as having the highest probability for success. The other two methods, which used all existing Docket Sheet data for averages and regression analysis of individual payments, are explained in detail in Appendices G and H, respectively.

Data from All Docket Sheets for FY72 through FY76

The complete file of Docket Sheets was accessed and average total payments by state and by District were computed. In addition, average values were found for each of the 15 payment categories; however, the averages for all values were low, since FY72 through FY76 were averaged. The resulting averages were theoretically close to what the FY74 values should be, assuming a linear increase in payments due to inflation over the 5 years.

Regression Analysis of Individual Payments

The second approach involved establishing relationships between payment types and demographic data. This approach has potential for use, but since the early results did not show the desired level of consistency, it became obvious that an unacceptable level of effort would be required to perfect the method. Therefore, this approach was not studied further.

Docket Sheet Data Broken Out by Fiscal Year

With the third approach, the data were readily available, projections could be made for future years, and accuracy was acceptable. This method used Docket Sheet data broken out into the fiscal years in which the payments were made. For the total Docket Sheet file, total payments to applicants were averaged by the state and District in which the payments were made; in addition, each average payment type was computed.

Finding the total average applicant payment permits a user to estimate total relocation funds required for a project if the number of potential applicants is known. Fiscal year budget amounts can be calculated by estimating the number of applicants that will be paid in a fiscal year. If more detailed information becomes available about the types of applicants that will be paid, the payment type average values can be used to calculate fiscal year costs, and this method will become more usable.

5 FISCAL YEAR PAYMENTS

Introduction

This chapter provides data for total and individual payment averages at the national level. When District and state data were analyzed, it was discovered that while more than 7000 applicants have been paid since the inception of PL 91-646, less than half the Districts have made payments to 100 or more applicants. Thus, while useful tabulated data could be and were developed for nationwide estimating, District and state estimating data were not reliable (Appendices A and C).

This estimating model can insure that estimates made for future years are accurate; however, the actual expenditure will depend on the scheduling of District work loads and on action and responses by applicants, as indicated in the preceding chapters.

OCE prepares listings of project payments made for each fiscal year, starting with FY72. Engineer Data Processing Center (EDPC) Program 5N15C provides a review by state; program 5N16C provides a review by District. Various analyses were performed on these data (Appendices A through D).

Tables 4 through 17 and Figures 4 through 17 provide a trend analysis for the fiscal years, using least squares, for all payments except direct loss farm and direct loss business. Table 18 shows the least squares equations that were used, and Table 19 shows projected values for these payments through 1980.

All payments (except increased interest payments) had positive slopes. Replacement housing, total payments, fixed moving for farms, rental payments, and down payments had correlation coefficients R^2 values above 0.90, while closing costs had an R^2 value of .8906. If the listed total payments were only for final, the trend for average amount paid per applicant could progress even more uniformly. Inflation is probably responsible for most of this steady increase.

If the trend for replacement housing is not drastically altered within the next few years, the average replacement housing payment will reach the Section 203 payment ceiling (\$15,000) by 1981. The Section 204 payments will also exceed their ceilings soon. Rent payments will average more than \$4000 in 1978, and the average down payment will exceed \$4000 in 1979. This suggests that the PL 91-646 ceilings for these payments should be raised.

The fixed moving payments also have ceilings, but the trends indicate that none of these will be reached until 1988.

Individual Payment Trends FY72 to FY76

The statistics below summarize individual payment averages for all real estate programs at the national level. Each payment is tabulated (Tables 4 through 17), graphed by using the least squares line (Figures 4 through 17), and discussed. The least squares equations are also shown. For FY72 and FY73, many of the relocation programs were not identifiable, although their amounts were. Consequently, only the civil works average is shown in the tables. The grand total value will often be different from the civil works average for FY72 and FY73 because of other program values that have been averaged in but are not shown on the tables.

Average Total Payment (Total) Curve

Since FY72, total payments have been increasing consistently at approximately \$858 per year. As shown in Table 19 and Figure 4, the trend indicates that the average total payment per applicant will be \$5705 and \$6543 for FY77 and FY78, respectively.

Average Replacement Housing (RH) Curve

Since FY72, replacement housing payments have been increasing consistently at a rate of \$1325 per year. The trend indicates (Table 19 and Figure 5) that the average replacement housing payment will be \$9510 and \$10,884 per applicant for FY77 and FY78, respectively.

Average Residential Moving Payments (AMD) Curve

This curve has one inconsistent data point -- that for FY73. The inclusion of this point depresses the rate of increase to approximately \$101 per year. Without the value for FY73, the rate of increase would be approximately \$126 per year and the curve would fit the remaining data points much better. The trend indicates the average AMD payment to be \$1254 and \$1357 in FY77 and FY78, respectively (Table 19 and Figure 6).

Average Fixed Residential Moving Payments (FMD) Curve

The values for these expenses have been very consistent from FY72 to FY76, with an increase of approximately \$6 per fiscal year. The trend indicates that the average FMD will be \$442 and \$448 in FY77 and FY78, respectively (Table 19 and Figure 7).

Average Actual Business Moving Payments (AMB) Curve

This curve does not fit the data points well, so no conclusion can be drawn (Table 19 and Figure 8).

Average Fixed Business Moving Payments (FMB) Curve

This curve provides a reasonably good fit to the data points. The average payments have been increasing at about \$200 per year, and if the trend continues, average payments can be expected to be \$4232 and \$4433 for FY77 and FY78, respectively (Table 19 and Figure 9).

Average Actual Farm Moving Payments (AMF) Curve

This curve provides a good fit to the data points, showing an annual increase of \$141. The trend indicates that payments will be \$1397 and \$1539 in FY77 and FY78, respectively (Table 19 and Figure 10).

Average Fixed Farm Moving Payments (FMF) Curve

This curve also provides a good fit to the data, showing an annual increase of \$124. The trend indicates that payments can be expected to be \$3739 and \$3853 for FY77 and FY78, respectively (Table 19 and Figure 11).

Average Searching Expense Payments Curves for Farms and Businesses (SF, SB)

The curves fit the data points very poorly and, therefore, no conclusion can be drawn (Table 19 and Figures 12 and 13).

Average Increased Interest Cost Payments (IIC) Curve

No conclusions can be drawn from the data, because of the poor fit of the curve (Table 19 and Figure 14).

Average Closing Costs Payments (CC) Curve

The average cost has been increasing consistently, except for FY76. The trend curve (least squares) shows that the increase has been \$45 per year and that the expected values will be \$358 and \$403 for FY77 and FY78, respectively (Table 19 and Figure 15).

Average Rental Payments (RP) Curve

These average payments have been increasing relatively consistently at an annual rate of \$627. The trend indicates that the expected values will be \$3516 in FY77 and that the PL 91-646 ceiling of \$4000 will be reached in FY78 (Table 19 and Figure 16).

Average Down Payment (DP) Curve

These average payments have been increasing consistently at \$318 per year. The trend indicates that the expected values will be \$3,658 and \$3,977 in FY77 and FY78, respectively (Table 19 and Figure 17).

Projections of National Individual Payments FY77 to FY80

Using the least squares equations developed in Table 18, projections were calculated for FY77 to FY80. The fiscal year values are shown in Table 19 and the graphs are shown in Figures 4 through 17.

Confidence Intervals for Projection

Figures 4 through 17 include predicted values for the payment types for FY77, FY78, FY79, and FY80. On each graph, the least squares line is indicated by the solid line. Most of the graphs have dashed lines on opposite sides of the least squares lines. The dashed lines correspond to the prediction limits. One can say that the mean payment for a fiscal year will fall within these limits with 100 (1 - α) percent confidence. For these charts, α was set to be equal to .05. In reference to Figure 18, it can be seen that FYab shows a 95 percent confidence that the mean value for payment X will be between c and d, inclusively.

These confidence intervals were calculated using the equations from Introduction to Statistical Analysis by Dixon and Massey (Appendix I).³

The confidence intervals widen with each subsequent fiscal year. This usage of expanding limits correctly reflects the decreasing confidence of future predictions.

These graphs give the estimator a range of figures to use in performing the calculations. The confidence intervals provide the estimator with a range of plausible values, rather than just one number to put into an equation. This range for the future payments reflects the variability of past payments, and thus presents the corresponding uncertainty of future estimates.

This confidence interval also provides the estimator a check for his own calculations. If he has determined a figure that is outside the range shown on these graphs, it may be expedient to recheck the calculations. If his figure is within the limits, he can use that fact to add more credibility to the calculated average. Thus, these intervals can be used in two ways: (1) as a guide for making an estimate, and/or (2) as a check for a determined estimate.

The horizontal lines on the graphs labeled PUB, PLB indicate payment amount limits set by law.

³ Dixon and Massey, Introduction to Statistical Analysis (McGraw-Hill, 1957), p 195.

Fiscal Year Data -- Active and Final Reports

Docket Sheets can be classified into two groups -- those that are still active and those that are final. Final reports show all payments that have been made, and no further payments need be considered; however, active reports may not show all payments that the applicants are eligible for or may yet receive.

Active and final applicant reports are listed in summary reports EDPC-5N15C (by state) and EDPC-5N16C (by District) without any distinction between the two types of applicant reports. It is therefore possible for an applicant to be listed in two different fiscal years, and these fiscal years may not necessarily be consecutive. For instance, an investigation showed that some applicants are listed in FY74 and FY76, but not in FY75. It is also possible for an applicant to be listed in 13 fiscal years. No attempts to investigate the possibility of an applicant being listed in four fiscal years has been made. An analysis of the 5N16C reports for FY75 and FY76 shows that 161 of the 2004 applicants listed in FY75 were also listed in FY76. This means that 8.03 percent of the applicants for FY75 were listed twice. These duplicated applicants accounted for \$585,051 of the \$8,646,153 spent for relocation in FY75. These payments were charged again to FY76. Since \$6,288,856 was spent for relocation in FY76, at least 9.30 percent of this total was incorrectly charged against FY76. No figures for further cost duplication have been determined.

6 PREPARING BUDGETARY ESTIMATES

Budgetary estimates of relocation costs may be computed by each District in several ways, depending on the detail of information that the District has on the applicants.

The simplest and quickest estimate can be calculated from the TOTAL line in Table 19. The only additional information required is the total number of applicants that will be paid.

Example 1:

Assume that 100 applicants will be paid in FY76.

The average payment per applicant = \$4696

The total amount required for 100 applicants = $\$4,696 \times 100 =$
\$469,600

The second method of calculating an estimate is equally simple, but is in terms of number of individual payments to be made rather than number of applicants to be paid.

Example 2:

Assume that 100 payments will be made in FY76.

Since in FY76 1388 applicants received 2565 payments,
on the average, each applicant received

$\frac{2565}{1388}$ payments = 18,480 payments

Convert number of payments to equivalent applicants.

$\frac{100 \text{ payments}}{1.8480 \text{ payments/applicant}} = 54.1126 \text{ applicants}$

Then, as in Example 1, above, the average payment per applicant = \$4696. The total amount required for 54.1126 applicants (which is equivalent to 100 payments) = $\$4696 \times 54.1126 = \$254,113$.

The third method presumes that the District has more information on the types and numbers of payments to expect. In FY76, the percent distribution of numbers of payments was as shown in Table 20 (actual numbers are in Table 21). For fixed moving dwelling (FMD), 34.31 percent of all payments were of this type. For every 100 applicants, 184.3 payments are made (Example 2). Using the FY76 distribution of payments the following estimate can be calculated (Table 22). (Note that this is very close to the \$469,600 value derived in Example 1.)

The fourth method, while similar to three above, assumes that the distribution of payment types is known and that it is different from the standard distribution (Table 23).

The distribution of payment values was not projected because future predictions, in this case, were meaningless. For FY77 and FY78, use of FY76 distribution is suggested so accuracy will not be impaired.

7 VALIDATION

Since each applicant must be evaluated as an individual case, variations were expected both in the amounts of individual payment types and in the total amount received by each individual application. It was determined that the averaging process would indicate the individual payment value that could be expected for each payment. Legitimately high and legitimately low payments would be blended in with the in-between payments. Also, an average based on a large number of payments is more credible than one based on only a few. Therefore, the national average for individual payment types and for total applicant payment types was selected as having the highest reliability (credibility). In doing so, any subjectivity was eliminated by the Districts. Because there may be legitimate regional variations between payment types and total applicant payments, a ± 10 percent variation in any of the national average payment amounts is acceptable. Variations outside of this ± 10 percent and -10 percent range, a difference of 20 percent from low to high, are determined by whether a District is liberal or conservative in its servicing of applicants. The 10 percent range was chosen to reflect the Bureau of Labor Statistics, Consumer Price Index ranges from region to region. Investigation of the variations determined that some Districts were consistently above or below average; nine Districts were above 110 percent and 16 Districts below 90 percent of the national average in over half the years for which data were available.

Five Districts were over 150 percent of the national average; seven Districts were 50 percent under the national average. High Districts and/or operating Divisions were Albuquerque, Mobile, North Central Division, Omaha, and Rock Island. Low Districts and/or Operating Divisions were Little Rock, Los Angeles, Memphis, Nashville, New England Division, Norfolk, and Pacific Ocean Division. To investigate whether the average national value computed per applicant was appropriate, data were eliminated for the five Districts that were 150 percent above and the seven Districts 50 percent below the national average for FY76. This reduced the national average payment per applicant from \$4696 to \$4435, a 6 percent reduction. Since this was still within the ± 10 percent range, all District data were included in the model development.

Finally, individual payment types for each District for FY76 were examined to determine those Districts consistently 110 percent above and those Districts consistently 90 percent below the national average. If the District had more payments in the below 90 percent range than it did for other payments, it was considered low. Consistently high Districts had most payments above 110 percent. Districts consistently high were Alaska, Albuquerque, North Central Division, Omaha, Pittsburgh, and Walla Walla. Districts consistently low were Fort Worth, Huntington, Louisville, Memphis, Mobile, Nashville, Portland, Savannah, St. Louis, and Vicksburg.

8 CONCLUSIONS

This research has developed a technique for CE Districts to use in estimating relocation payments required by PL 91-646. The technique, which is based on national average total payment values, offers several advantages: (1) it is easy to use, (2) it enables Districts to provide OCE with more accurate estimates of fund requirements, and (3) it is a standardized method which eliminates much of the subjective judgment involved in cost estimating.

It is recognized that relocation costs, and consequently payments, will vary from region to region (District to District); this was compensated for by placing a ± 10 percent range of acceptability on the national average total payment.

Table 1

Benefits Receivable by Relocation Applicants*

		MIN	MAX
1. MOVING EXPENSES:	a. Actual Residential	-	-
	b. Fixed Residential	200	500
	c. Actual Business Moving	-	-
	d. Actual Business Storage	-	-
	e. Business Direct Loss	-	-
	f. Actual Business Searching	-	-
	g. Fixed Business	2500	10000
	h. Actual Farm Moving	-	-
	i. Farm Direct Loss	-	-
	j. Actual Farm Storage	-	-
	k. Actual Farm Searching	-	-
	l. Fixed Farm	2500	10000
2. REPLACEMENT HOUSING, HOMEOWNERS:	a. Additional Cost of House	-	*
	b. Increased Interest	-	*
	c. Closing Costs	-	*
	TOTAL (sum of a through c, as they apply)	-	15000
3. REPLACEMENT HOUSING, TENANTS:	a. Supplemental Rental Payment OR	-	4000
	b. Down Payment	-	4000
	TOTAL (sum of a through b, as they apply)	-	4000

*NOTE: Sum of additional cost of house, increased interest cost, and closing costs cannot exceed \$15,000.

Table 2

Applicant Types and Payment Categories
for Which They May Be Eligible

		Actual Moving Dwell Bus Farm	Fixed Moving Dwell Bus Farm	Searching Bus Farm	Replace Housing	Incr Ints	Close Cost	Rent Pay	Down Pay
1 Dwelling Only	Owner	X	X		X	X	X		
	Tenant	X	X					X	X
2 Business & Dwelling	Owner	X	X	X	X	X	X		
	Tenant	X	X	X				X	X
3 Farm & Dwelling	Owner	X	X	X	X	X	X		
	Tenant	X	X	X	X	X	X	X	X
4 Business, Farm, & Dwelling	Owner	X	X	X	X	X	X		
	Tenant	X	X	X	X	X	X	X	X
5 Business, Farm & No Dwelling	Owner	X	X	X	X	X			
	Tenant	X	X	X	X	X			
6 Business & No Dwelling	Owner	X	X	X					
	Tenant	X	X	X					
7 Farm & No Dwelling	Owner	X	X	X					
	Tenant	X	X	X					

Table 3

Bunched Classes of Payments to Applicants

		Residential Moving	Business Moving	Bunched Payments Farm Moving	Owners' Housing Payment	Tenants' Housing Payment
1 Dwelling Only	Owner	X			X	
	Tenant	X				X
2 Business & Dwelling	Owner	X	X		X	
	Tenant	X	X			X
3 Farm & Dwelling	Owner	X		X	X	
	Tenant	X		X		X
4 Business, Farm, & Dwelling	Owner	X	X	X	X	
	Tenant	X	X	X		X
5 Business, Farm, & No Dwelling	Owner		X	X		
	Tenant		X	X		
6 Business & No Dwelling	Owner		X			
	Tenant		X			
7 Farm & No Dwelling	Owner			X		
	Tenant			X		

Table 4
Average Total Payment Per Applicant (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	1564						1486
FY73	2483						2304
FY74	3260	2140		1613	3840	2412	3203
FY75	4314	2100	272	2917			4265
FY76	4786			2956	5048		4696

Table 5
Average Replacement Housing Per Applicant (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	2907						2944
FY73	3882						3848
FY74	4978	--		4315	--	3136	4966
FY75	6918	--	--	5708			6903
FY76	8321			6045	15000		8285

Table 6
Average Actual Residential Moving Payments (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	637						565
FY73	1200						1139
FY74	885	--		656	--	--	879
FY75	1051	--	272	480			1001
FY76	1083			1731	--		1147

Table 7
Average Fixed Residential Moving Payments (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	411						406
FY73	432						417
FY74	436	410		442	285	--	436
FY75	432	450	--	461			433
FY76	428			437	469		428

Table 8
Average Actual Business Moving Payments (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	624						777
FY73	5026						3439
FY74	4234	--		30	--	--	4167
FY75	17447	--	--	--			17447
FY76	3462			--	--		3462

Table 9
Average Fixed Business Moving Payments (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	3011						2967
FY73	3621						3771
FY74	3671	--		6250	--	--	3742
FY75	3476	--	--	5993			3618
FY76	3886			7500	--		4048

Table 10
Average Actual Farm Moving Payments (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	1111						815
FY73	575						592
FY74	1066	2500		--	--	--	1090
FY75	1095	--	--	--			1095
FY76	1197			2642	--		1271

Table 11
Average Fixed Farm Moving Payments (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	3211						3164
FY73	3220						3216
FY74	3262	--		--	--	--	3262
FY75	3492	--	--	6250			3505
FY76	3643			--	2500		3639

Table 12

Average Business Searching Payments (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	88						88
FY73	673						374
FY74	1347	--		--	--	--	1347
FY75	1234	--	--	--			1234
FY76	333			--	--		333

Table 13

Average Farm Searching Payments (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	371						371
FY73	644						644
FY74	812	2500		--	--	--	892
FY75	785	--	--	--			785
FY76	527			500	--		525

Table 14

Section 203

Average Increased Interest Costs Payments (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	116						118
FY73	137						174
FY74	230	--		486	--	844	238
FY75	295	--	--	455			300
FY76	258			637	674		281

Table 15

Section 203

Average Closing Costs Payments (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	116						118
FY73	137						174
FY74	230	--		486	--	844	238
FY75	295	--	--	455			300
FY76	258			637	674		281

Table 16

Section 204

Average Rental Payments (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	379						665
FY73	899						980
FY74	1103	960		1587	--	--	1111
FY75	2219	--	--	3475			2265
FY76	3139			3740	4000		3156

Table 17

Section 204

Average Down Payments (\$)

	Civil Works	Military	Atomic Energy Comm.	National Park Service	Air Force	U.S. Postal Service	Grand Total
FY72	1996						2027
FY73	2368						2464
FY74	2619	--		3098	3555	--	2643
FY75	3037	1650	--	4000			3057
FY76	3289			3820	--		3323

Table 18
Least Squares Equations Using Grand Total Averages

Y	a_0	a_1	R^2
Replacement Housing	-2706294.60	1373.70	.9823
Total Payments	-1651218.60	838.10	.9876
AMD	-201586.20	102.60	.4570
FMD	-11420.00	6.00	.5863
AMB	-3819358.80	1937.8	.2151
FMB	-392947.40	200.90	.6240
AMF	-278348.40	141.50	.6964
FMF	-241221.40	123.90	.9160
SB	-265814.80	135.00	.1385
SF	-87989.20	44.90	.1185
Increased Interest	181810.80	-91.60	.4199
Closing Costs	-89002.60	45.20	.8906
Rent Payments	-1235470.40	626.70	.9019
Down Payments	-626016.20	318.50	.9874

For equations of the form

$$y = a_1x + a_0$$

x = number corresponding to year;
i.e., 1979

Thus for replacement housing for 1979-
 $RH = 1373.70(1979) - 2706294.60$
 $= \$12,258$

Table 19

National Payment Averages FY72 through FY76 and Projections FY77 through FY80

FISCAL YEAR	72	73	74	75	76	77	78	79	80
AMD	565	1139	879	1001	1147	1254	1357	1459	1562
FMD	406	417	436	433	428	442	448	454	460
AMB	777	3439	4167	17447	3462	11672	13610	15547	17485
FMB	2967	3771	3742	3618	4048	4232	4433	4634	4835
AMF	815	592	1090	1095	1271	1397	1539	1680	1822
FMF	3164	3216	3262	3505	3639	3729	3853	3977	4101
SB	88	374	1347	1234	333	1080	1215	1340	1485
SF	371	644	892	785	525	778	823	868	913
IIC	1295	1094	824	730	1019	718	626	534	443
CC	118	174	238	300	281	358	403	448	493
SRP	665	980	1111	2265	3156	3516	4142*	4769*	5396*
DP	2027	2464	2643	3057	3323	3658	3977	4295*	4614*
RH	2944	3848	4966	6903	8285	9510	10884	12258	13631
TOTAL**	1486	2304	3203	4265	4696	5705	6543	7381	8219

* The trend indicates that the PL ceiling would be exceeded. In these cases, the \$9,000 maximum would be paid.

** The TOTAL line gives average payment per applicant whereas the individual payments above this line are in terms of the average value of an individual payment.

Table 20

Individual Payments as a Percent of Total Payments

<u>Payment Type</u>	<u>FY72</u> <small>of</small> <small>%</small>	<u>FY73</u> <small>of</small> <small>%</small>	<u>FY74</u> <small>of</small> <small>%</small>	<u>FY75</u> <small>of</small> <small>%</small>	<u>FY76</u> <small>of</small> <small>%</small>
AMD	5.17	3.77	5.81	9.42	8.65
AMB	1.66	1.89	1.99	1.14	1.95
AMF	1.49	1.50	1.96	1.39	1.52
FMD	53.98	46.24	37.54	33.86	34.31
FMB	1.37	1.89	2.31	2.68	2.61
FMF	6.90	6.41	9.95	10.63	11.15
SB	0.48	0.78	0.54	0.23	0.39
SF	0.42	0.32	0.63	0.40	0.47
RH	10.52	11.61	12.61	12.40	15.13
IIC	1.61	1.17	1.86	1.59	1.75
CC	11.95	9.95	12.10	9.92	9.71
RP	1.49	7.76	5.72	10.86	7.49
DP	2.97	6.73	6.98	5.48	4.87

Table 21

Number of Individual Payments by Fiscal Year

<u>Payment Type</u>	<u>FY72</u>	<u>FY73</u>	<u>FY74</u>	<u>FY75</u>	<u>FY76</u>
AMD	87	106	184	373	222
AMB	28	53	63	45	50
AMF	25	42	62	55	39
FMD	908	1299	1188	1341	880
FMB	23	53	73	106	67
FMF	116	180	315	421	286
SB	8	22	17	9	10
SF	7	9	20	16	12
RH	177	326	399	491	388
IIC	27	33	59	63	45
CC	201	279	383	393	249
RP	25	218	181	430	192
DP	50	189	221	217	125
Total Payments	1682	2809	3165	3960	2565
Total Applicants	1072	1591	1629	2075	1388
Payments Per Applicant	1.5690	1.7656	1.9429	1.9084	1.8480

Table 22

Example of Estimate Using Individual Payments -- Common Distribution

<u>Pay- ment Type</u>	<u>% of Total Payments</u>		<u>Payments</u>		<u>Average Payment Value, \$</u>		<u>\$</u>
AMD	8.65	x	184.8	x	1,147	=	18,335
AMB	1.95	x	184.8	x	3,462	=	12,476
AMF	1.52	x	184.8	x	1,271	=	3,570
FMD	34.31	x	184.8	x	428	=	27,137
FMB	2.61	x	184.8	x	4,048	=	19,525
FMF	11.15	x	184.8	x	3,639	=	74,982
SB	0.39	x	184.8	x	333	=	240
SF	0.47	x	184.8	x	525	=	456
RH	15.13	x	184.8	x	8,285	=	231,651
IIC	1.75	x	184.8	x	1,019	=	3,295
CC	9.71	x	184.8	x	281	=	5,042
RP	7.49	x	184.8	x	3,156	=	43,684
DP	4.87	x	184.8	x	3,323	=	29,906
							<u>\$470,299</u>

Table 23

Example of Estimate Using Individual Payments -- Changed Distribution

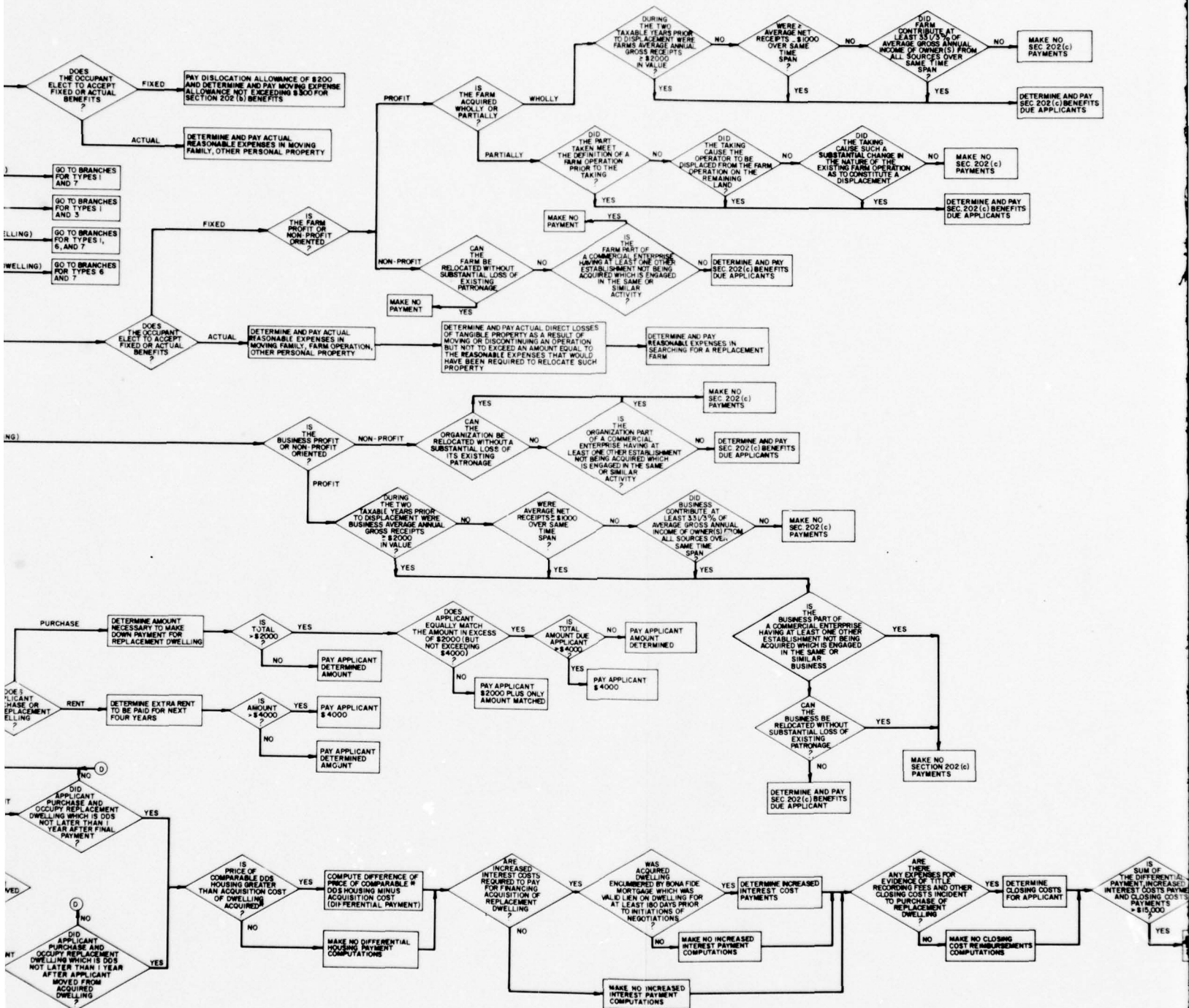
<u>Pay- ment Type</u>	<u>% of Total Payments</u>		<u>Payments</u>		<u>Average Payment Value, \$</u>		<u>\$</u>
AMD	10.00	x	184.8	x	1,147	=	21,197
FMD	40.00	x	184.8	x	428	=	31,638
FMF	20.00	x	184.8	x	3,639	=	134,497
RH	15.00	x	184.8	x	8,285	=	229,660
CC	5.00	x	184.8	x	281	=	2,596
RP	5.00	x	184.8	x	3,156	=	29,161
DP	5.00	x	184.8	x	3,323	=	30,705
							<u>\$479,454</u>



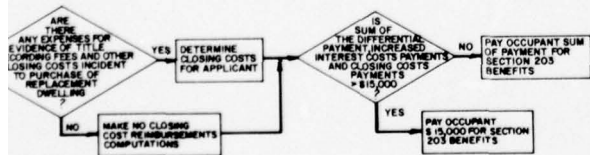
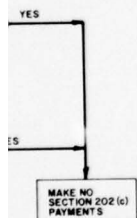
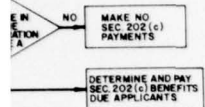
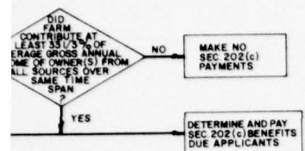
Figure 1. Project life conception through operation and maintenance.



Figure 1. (Cont'd).



NOTE: FOR MOBILE HOME OWNER, USE "COMPARABLE MOBILE DDS HOUSING" IN PLACE OF COMPARABLE DDS HOUSE



RCS. DAEN-RE-18 TITLE II, PL 91-646 DATE-730630
 RELOCATION PAYMENTS DISTRICT-PHIL
 DOCKET SHEET TYPE REPORT-ACTIVE

KEYWORD--0X03400020879
 PROJECT--DELAWARE WTR GAP NRA SUSSEX COUNTY N-J
 APPLICANT- PROGRAM (AGENCY) CODE----8
 NAME-----MARVEL IRMGARD OWNER-TENANT CODE-----0
 MAILING ADDRESS-29 DEERFIELD DR TYPE APPLICANT CODE----1
 CITY-----W ORANGE PROFIT-NONPROFIT CODE-----N
 STATE-----N-J DATE, LAND ACQUIRED -71D923

ADDRESS FROM WHICH MOVED- ADDRESS TO WHICH MOVED-
 ADDRESS--TRACT 3556 ADDRESS-29 DEERFIELD DR
 CITY-----DWGNRA CITY-----W ORANGE
 STATE----N-J STATE---N-J

GENERAL INFORMATION
 DATE BROCHURE MAILED-----711119 AGE GROUP-----1
 DATE OF NOTIFICATION TO VACATE- ETHNIC GROUP---5
 DATE PROPERTY VACATED----- NO. IN FAMILY--3
 DATE APPLICATION RECEIVED-----730409 DWELLING ON ACQU LAND-Y
 DATES RENT AUTH- HARSHIP-PAYT- LATEST-PAYT-730419

ELIGIBILITY AND APPEAL INFORMATION
 DATE ELIGIBILITY DETERMINED--730417 DATE OF APPEAL-
 DETERMINATION-----1 DETERMINATION-----
 REASON IF INELIGIBLE---0 DATE----- BY-----
 DATE APPLICANT NOTIFIED---730419 DATE APPLICANT NOTIFIED

AMOUNTS CLAIMED BY APPLICANTS AND AMOUNTS PAID			
	CLAIMED	HARDSHIP PAYMENTS	TOTAL PAYMENTS
ACTUAL MOVING EXPENSE-			
DWELLING \$:	\$	\$
BUSINESS :	:	:	:
FARM :	:	:	:
FIXED MOVING EXPENSE-			
DWELLING 450.00	:	:	425.00
BUSINESS :	:	:	:
FARM :	:	:	:
DIRECT LOSS-			
BUSINESS :	:	:	:
FARM :	:	:	:
SEARCHING-			
BUSINESS :	:	:	:
FARM :	:	:	:
REPLACEMENT HOUSING	:	:	:
INCREASED INTEREST COSTS	:	:	:
CLOSING COSTS	:	:	:
RENT AUTH. (\$, .)	:	:	:
RENTAL PAYMENTS	:	:	:
DOWN PAYMENTS	:	:	:
GRAND TOTAL \$	450.00	\$.00	\$ 425.00

Figure 3. Relocation payment docket sheet.

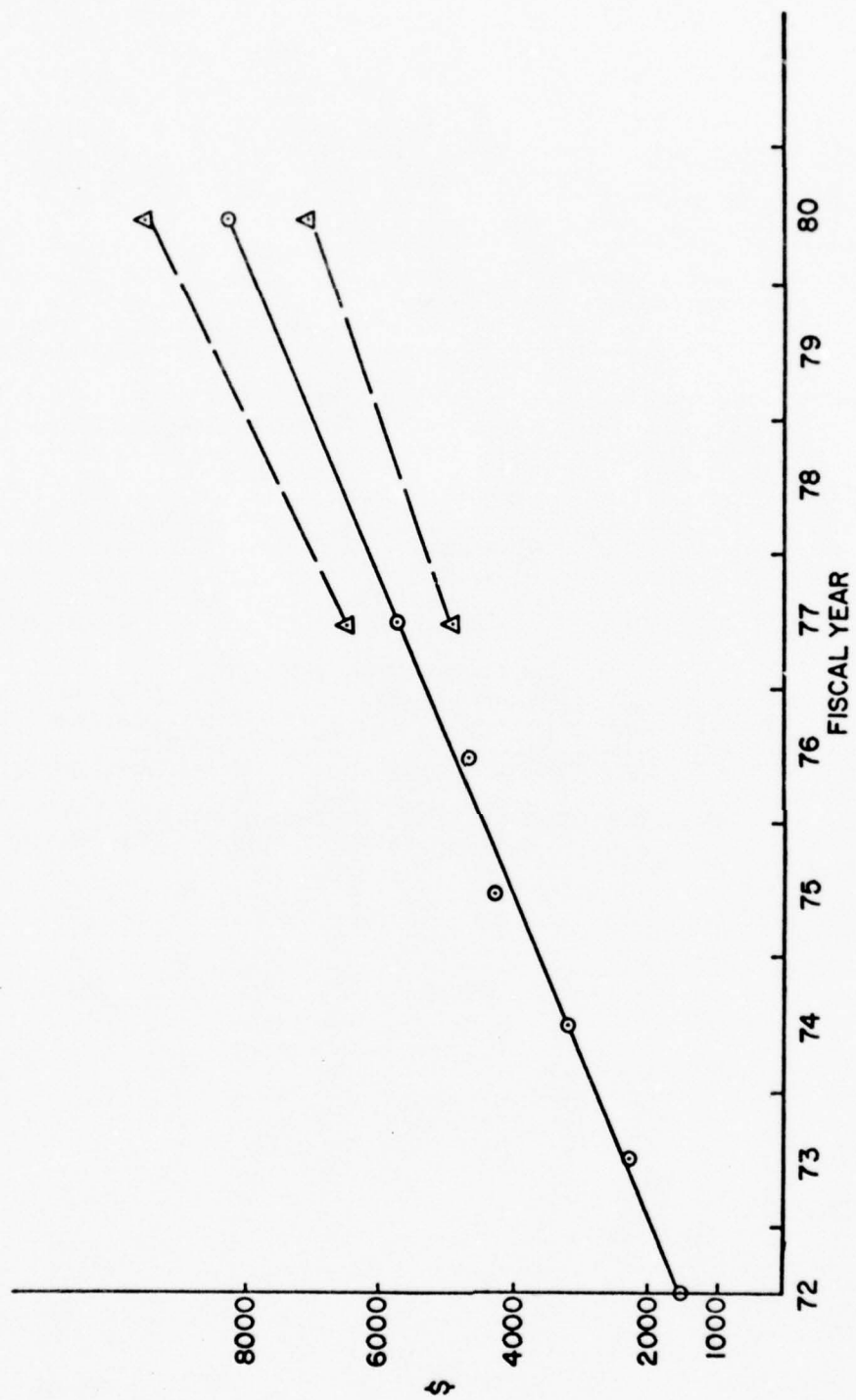


Figure 4. Average total payment per applicant with projections and confidence intervals.

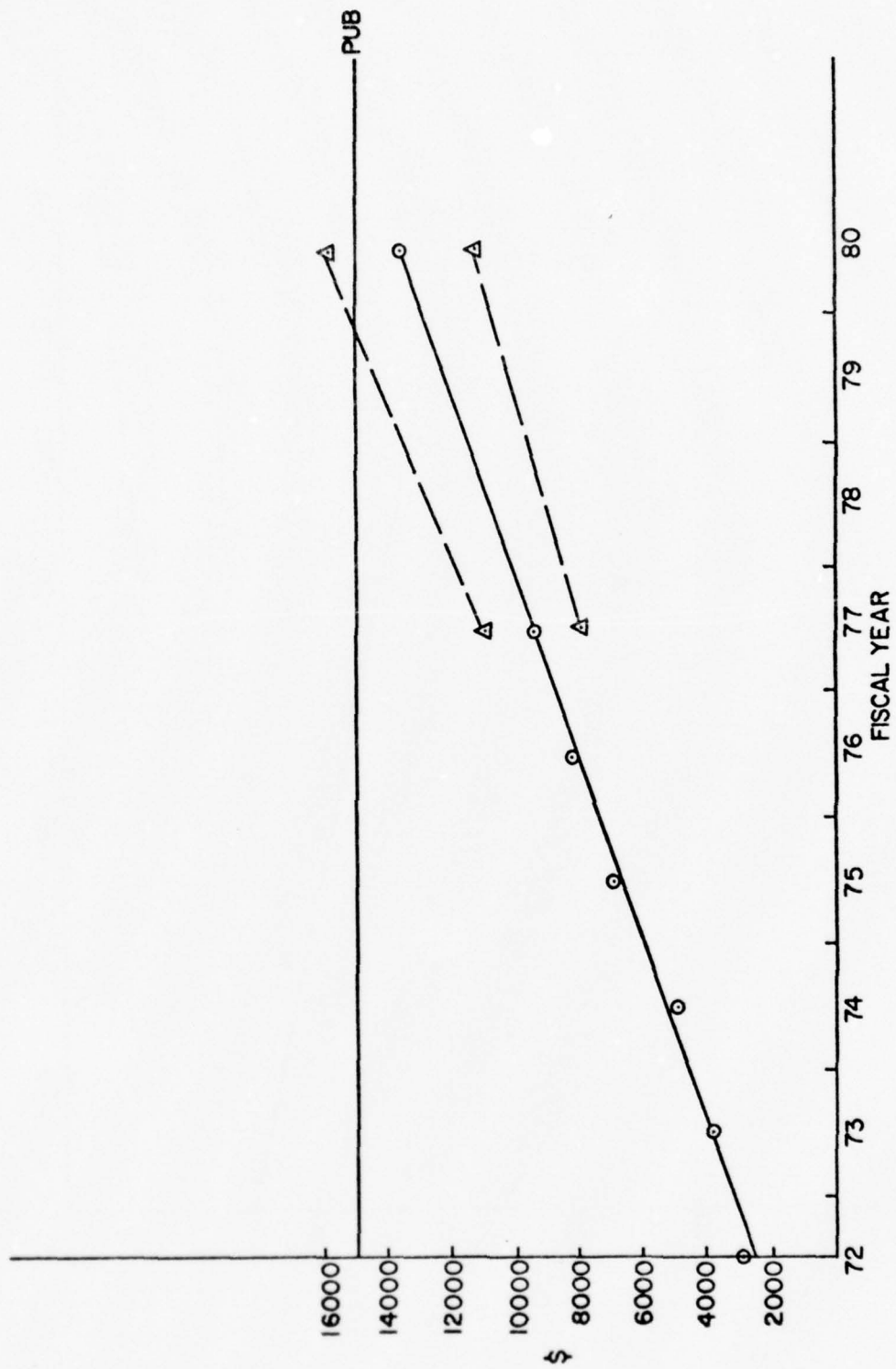


Figure 5. Average replacement housing payment with projections and confidence intervals.

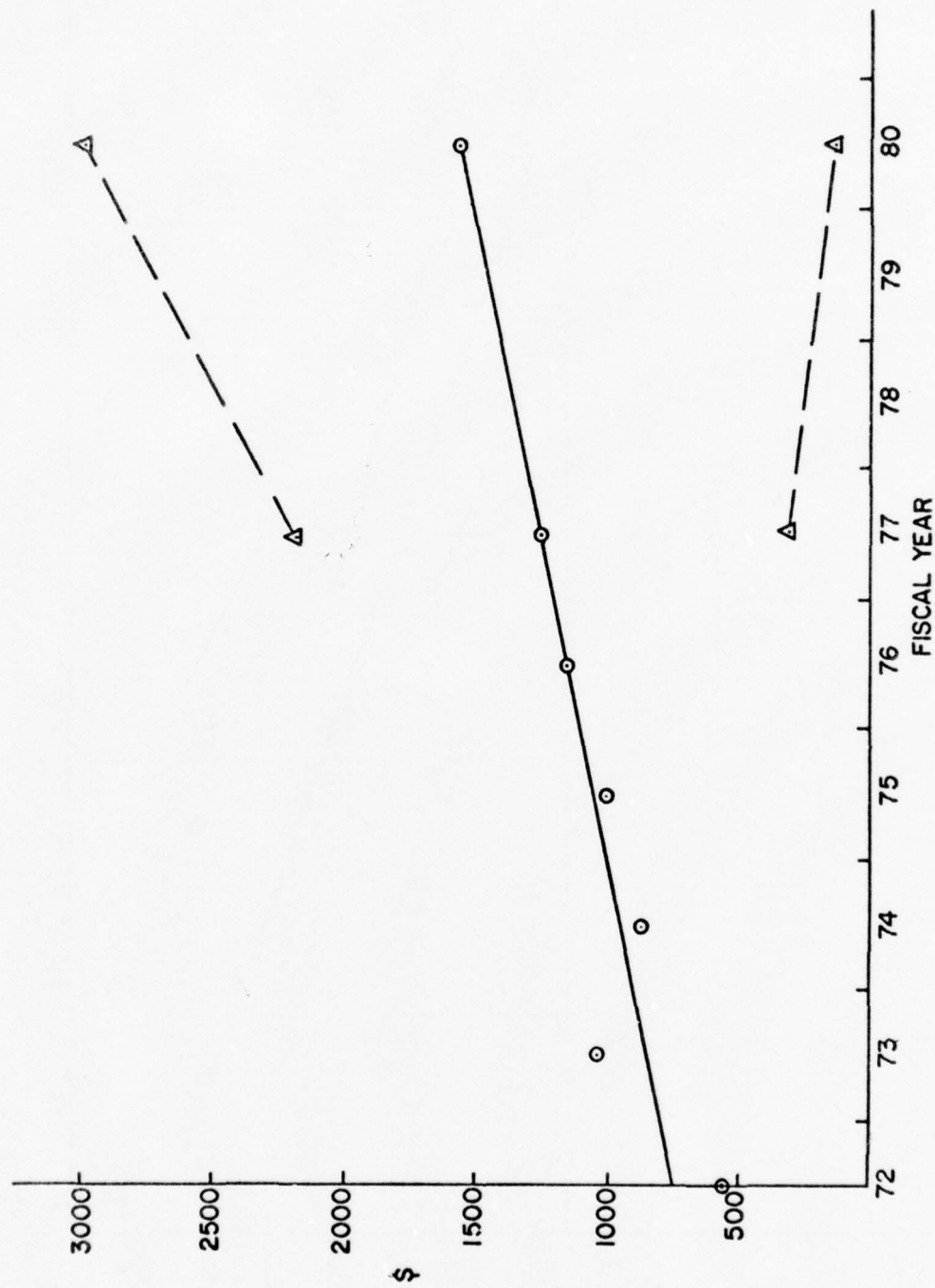


Figure 6. Average actual residential moving payments with projections and confidence intervals.

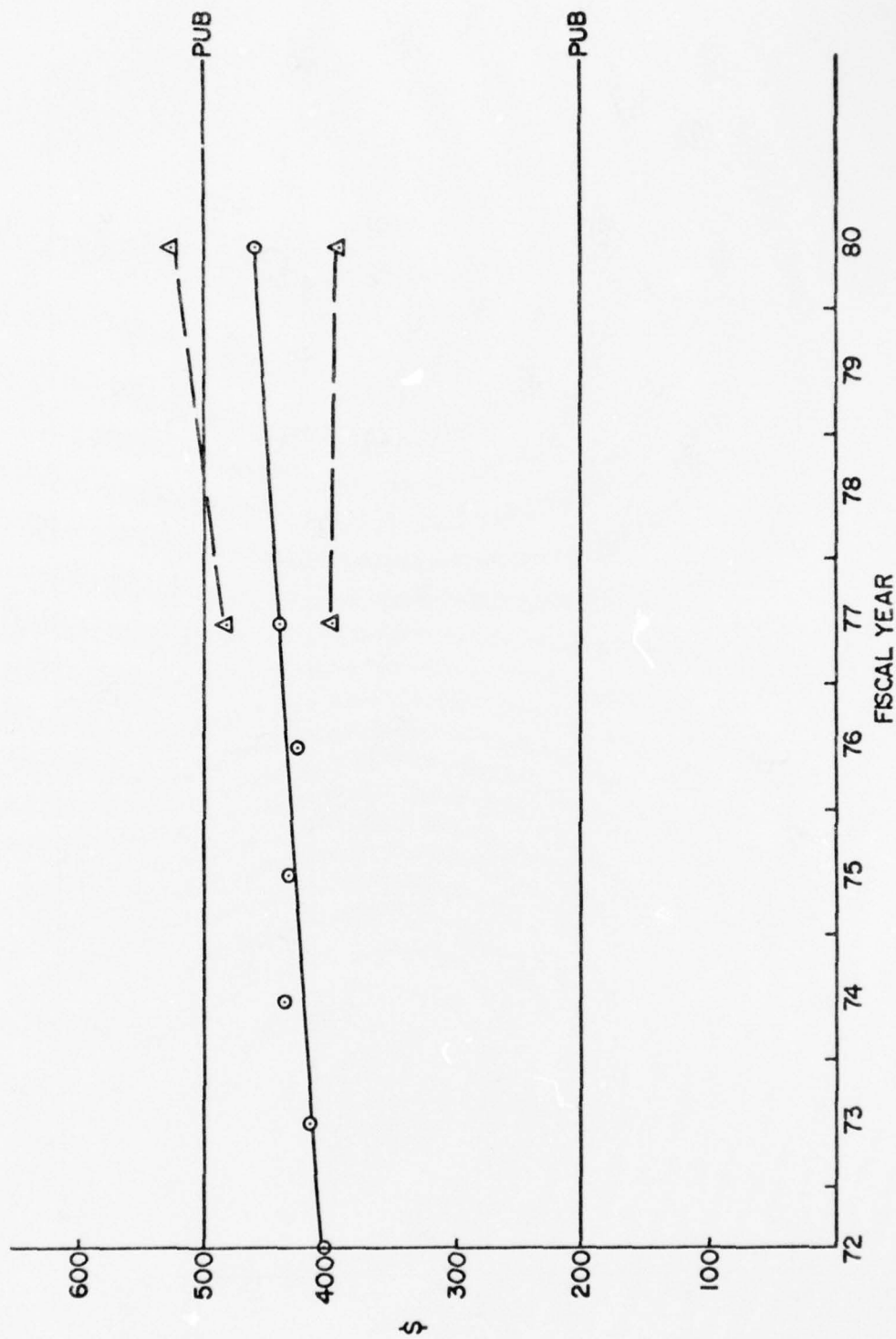


Figure 7. Average fixed residential moving payments with projections and confidence intervals.

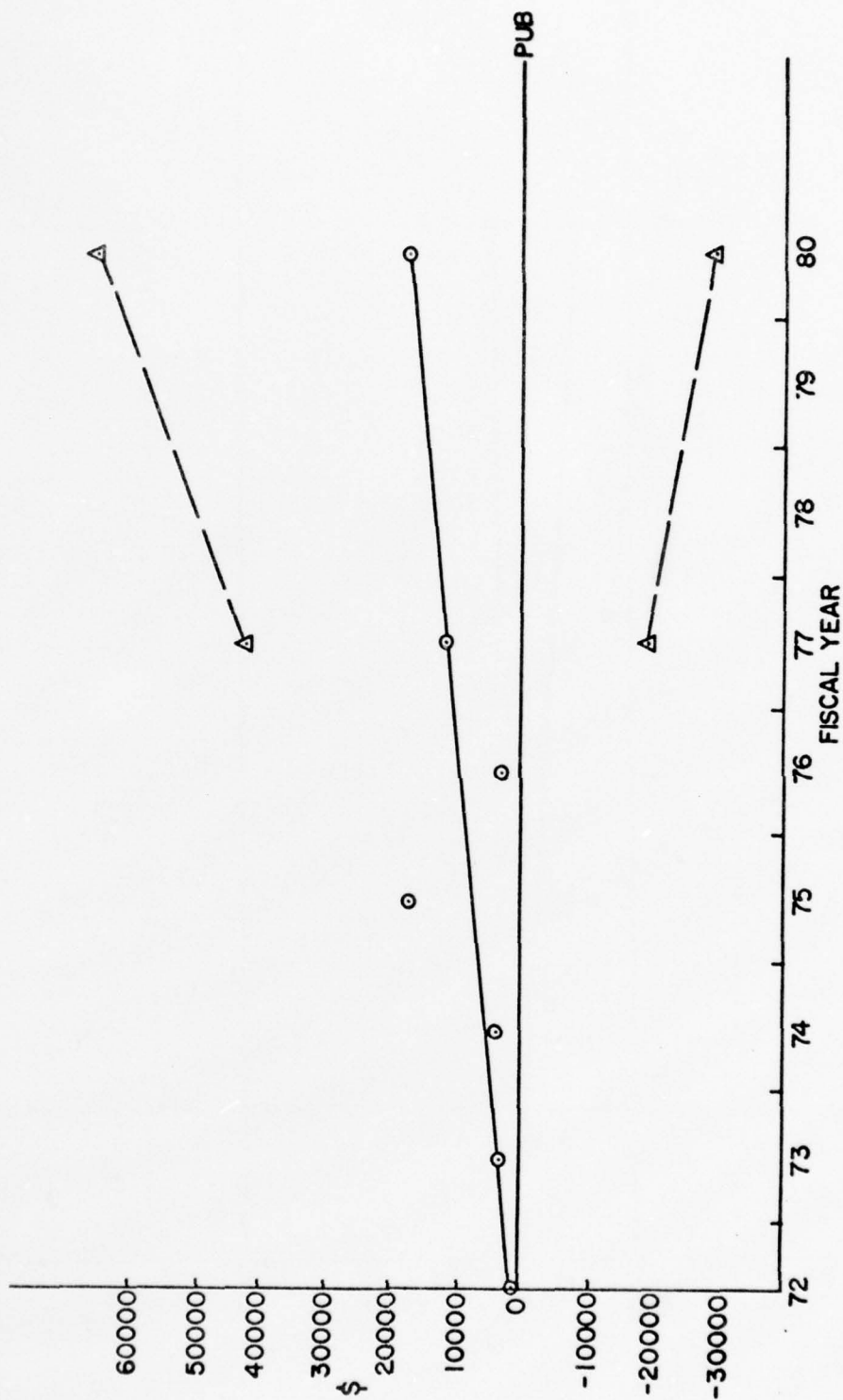


Figure 8. Average actual business moving payments with projections and confidence intervals.

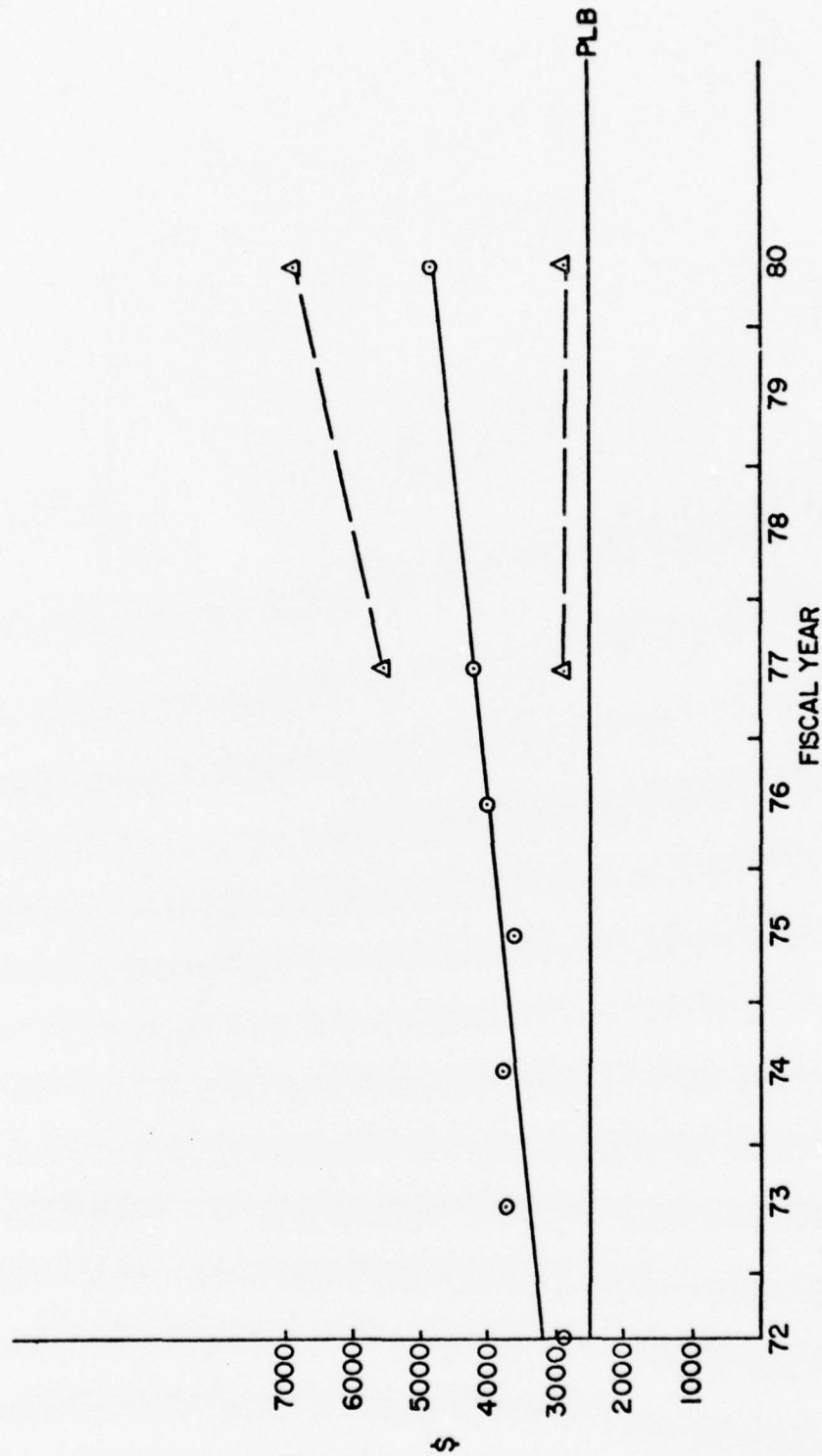


Figure 9. Average fixed business moving payments with projections and confidence intervals.

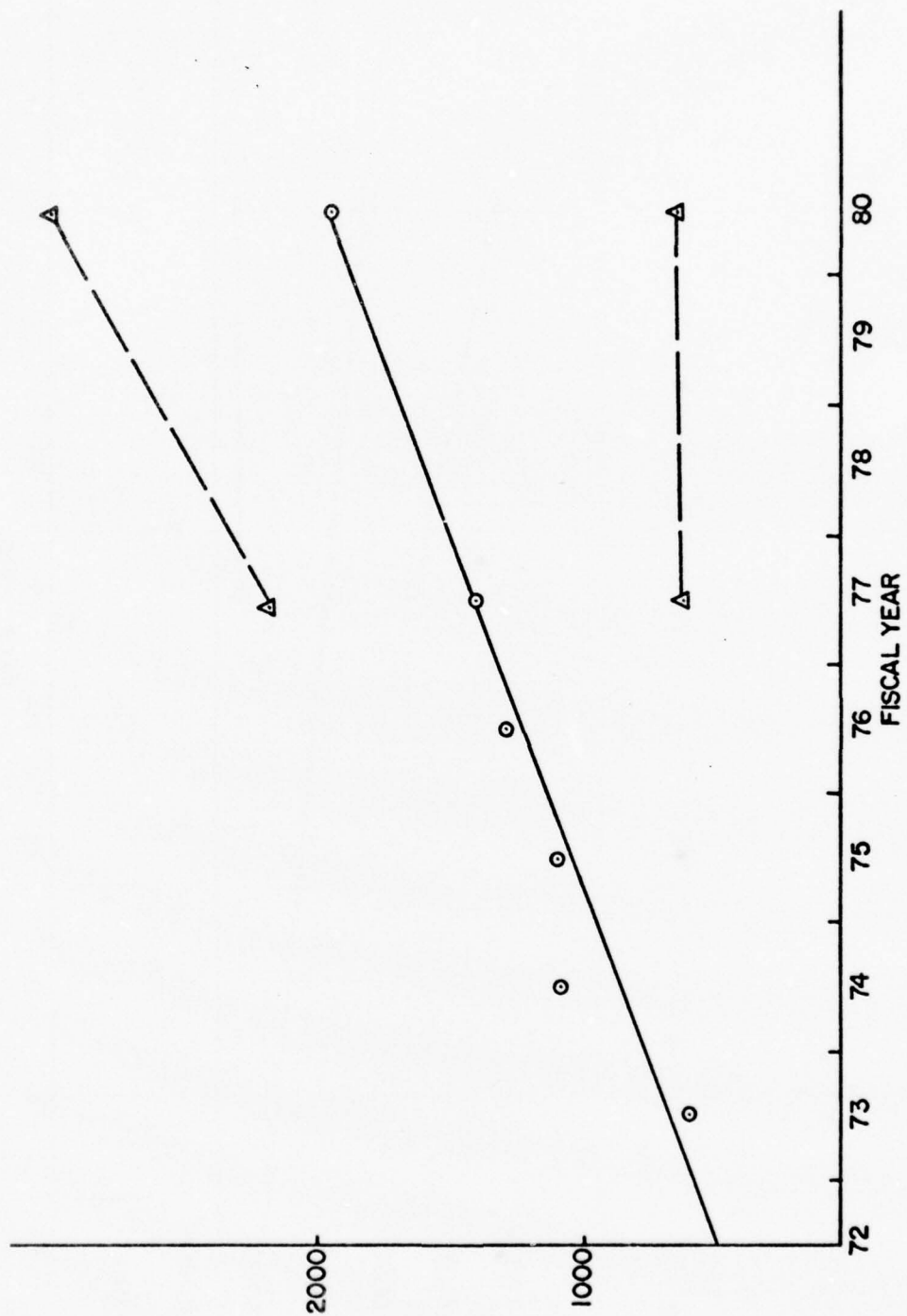


Figure 10. Average actual farm moving payments with projections and confidence intervals.

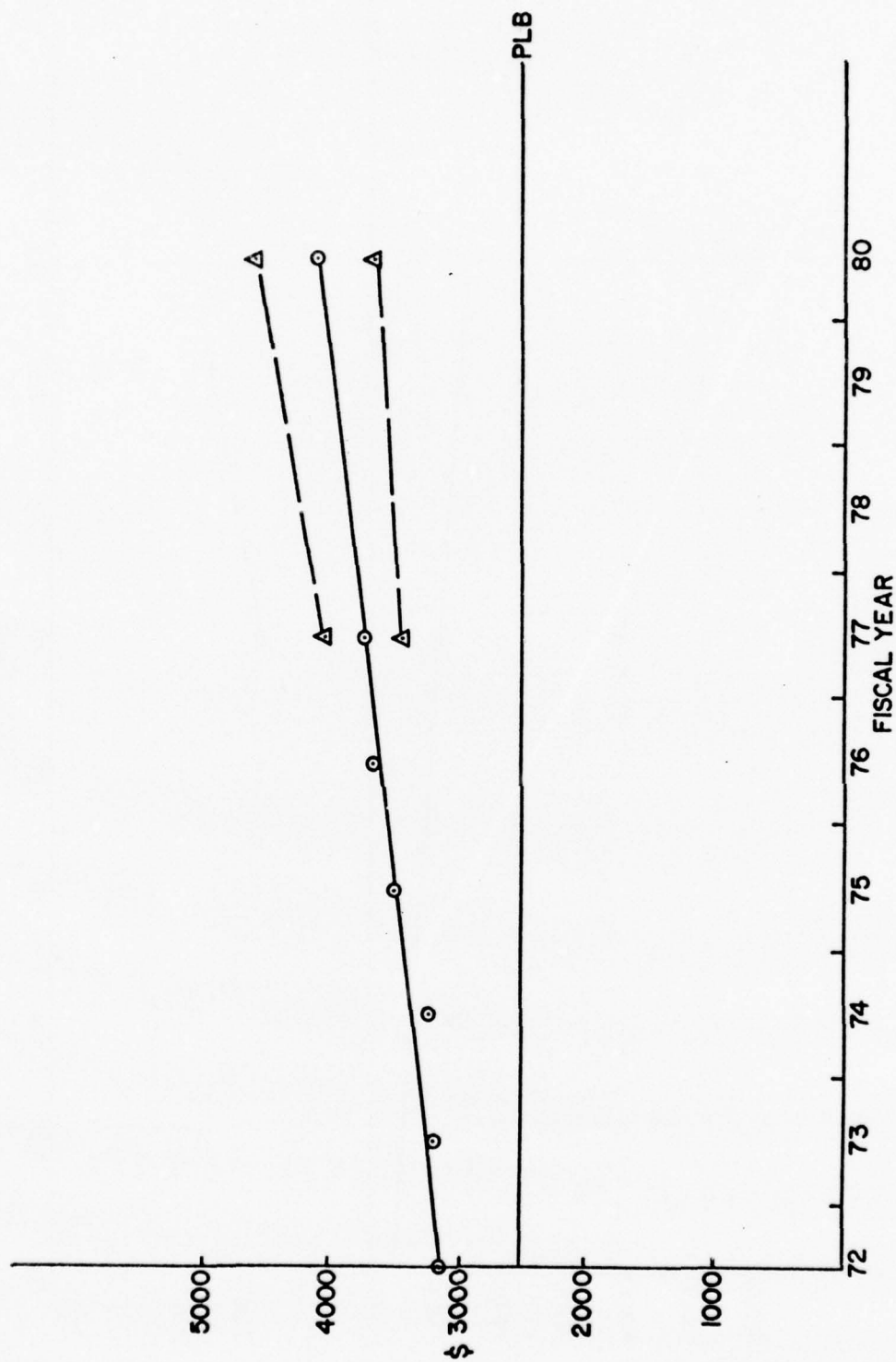


Figure 11. Average fixed farm moving payments with projections and confidence intervals.

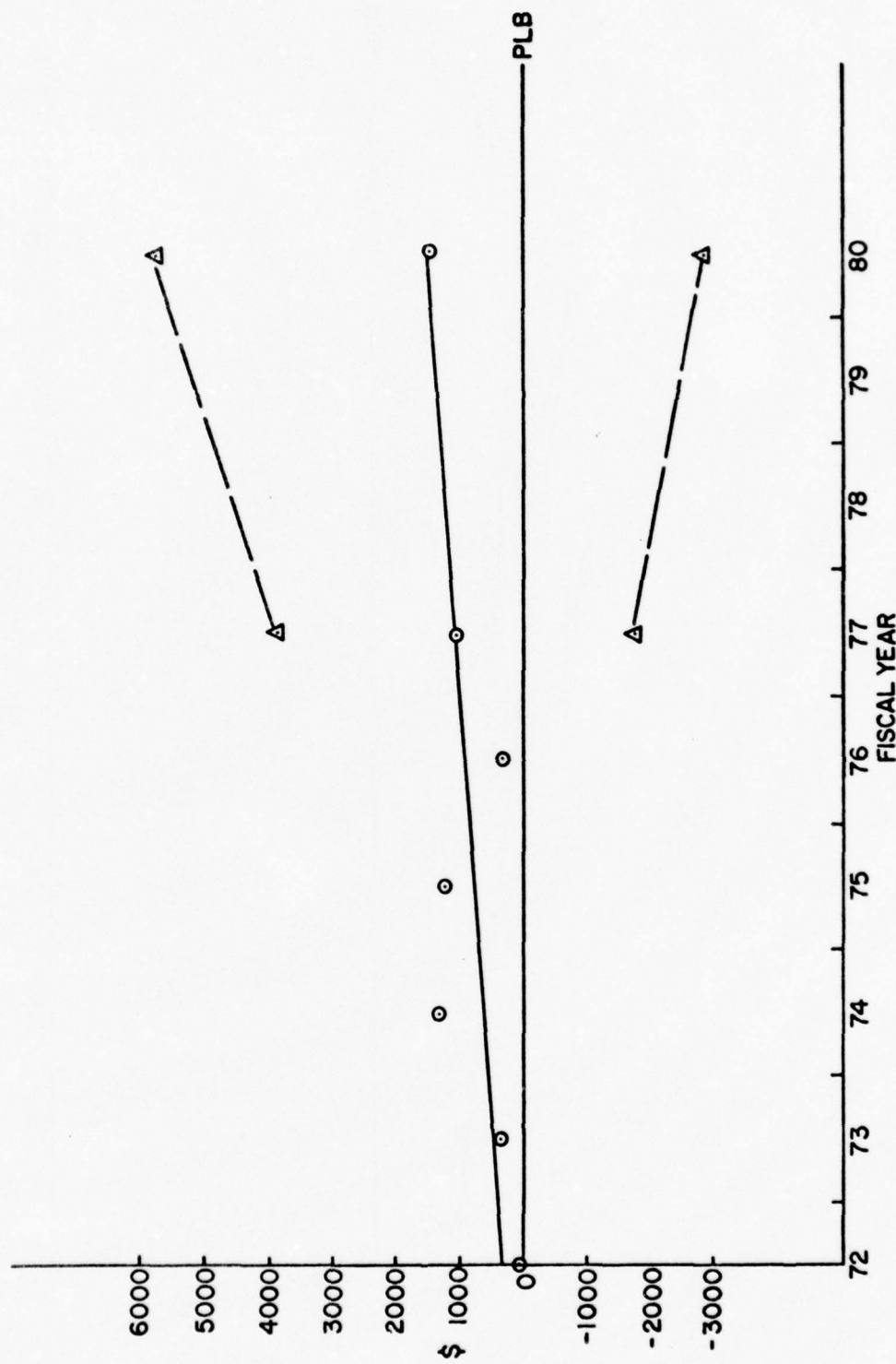


Figure 12. Average business searching payments with projections and confidence intervals.

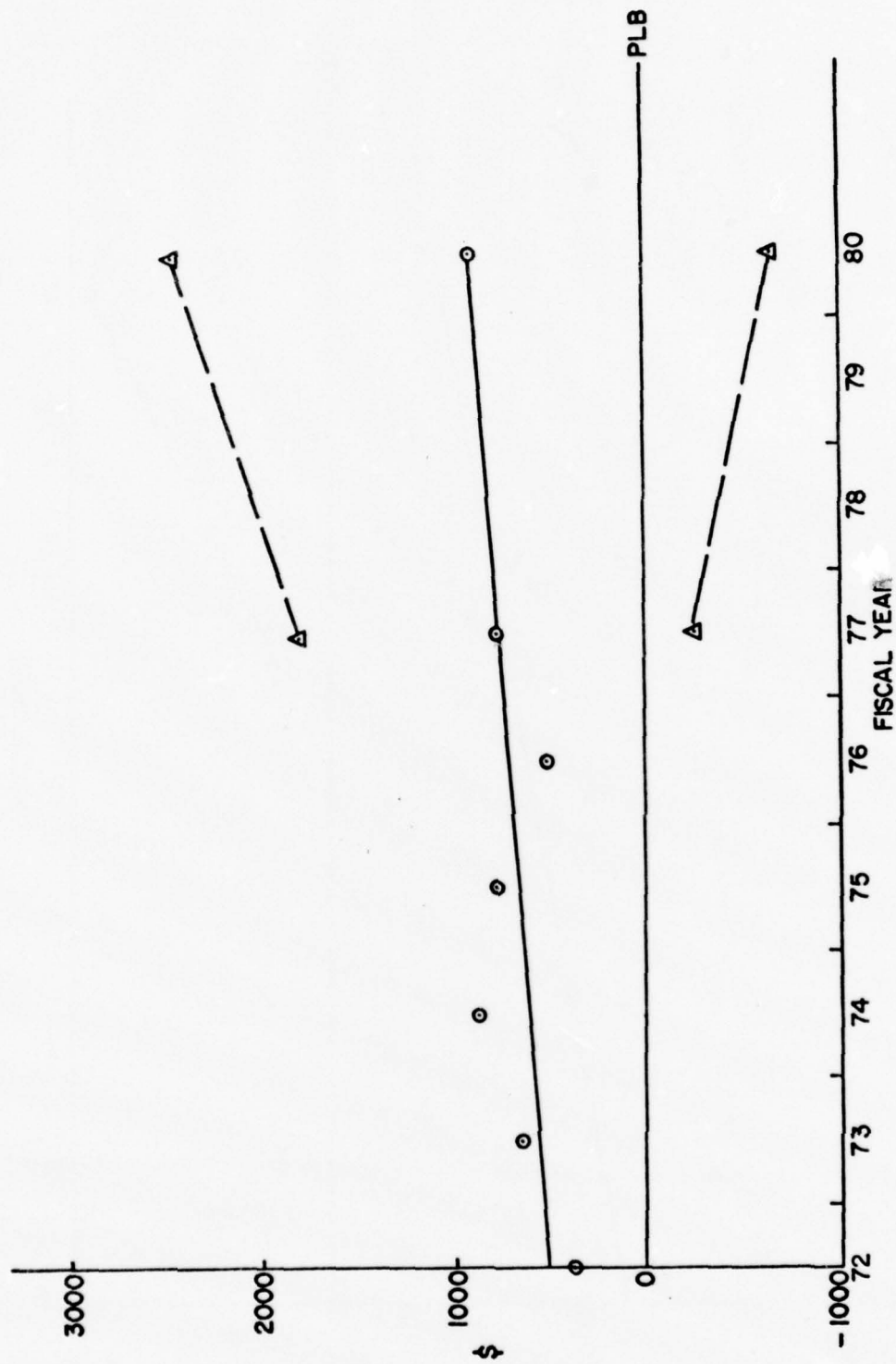


Figure 13. Average farm searching payments with projections and confidence intervals.

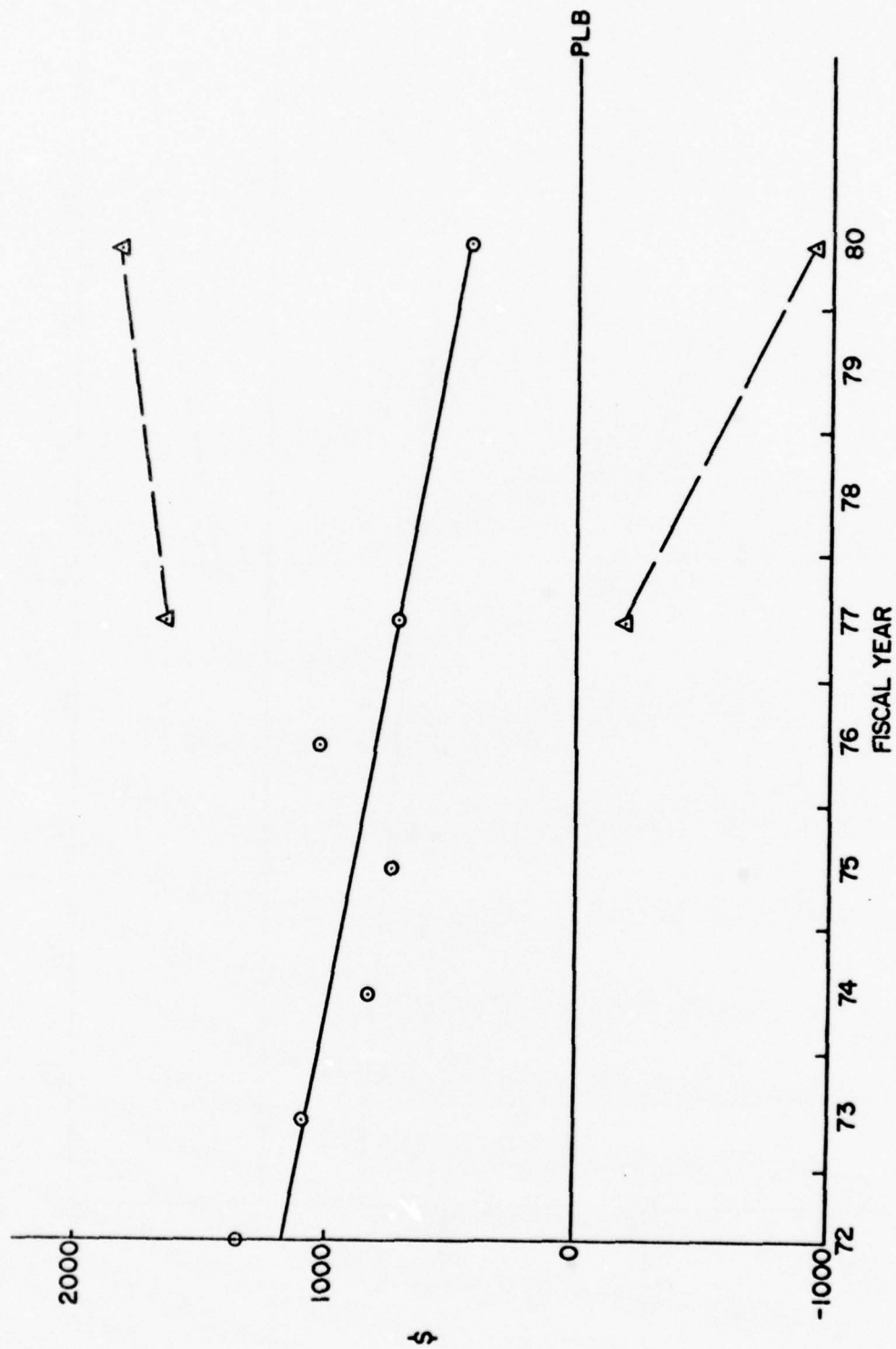


Figure 14. Average increased interest payments with projections and confidence intervals.

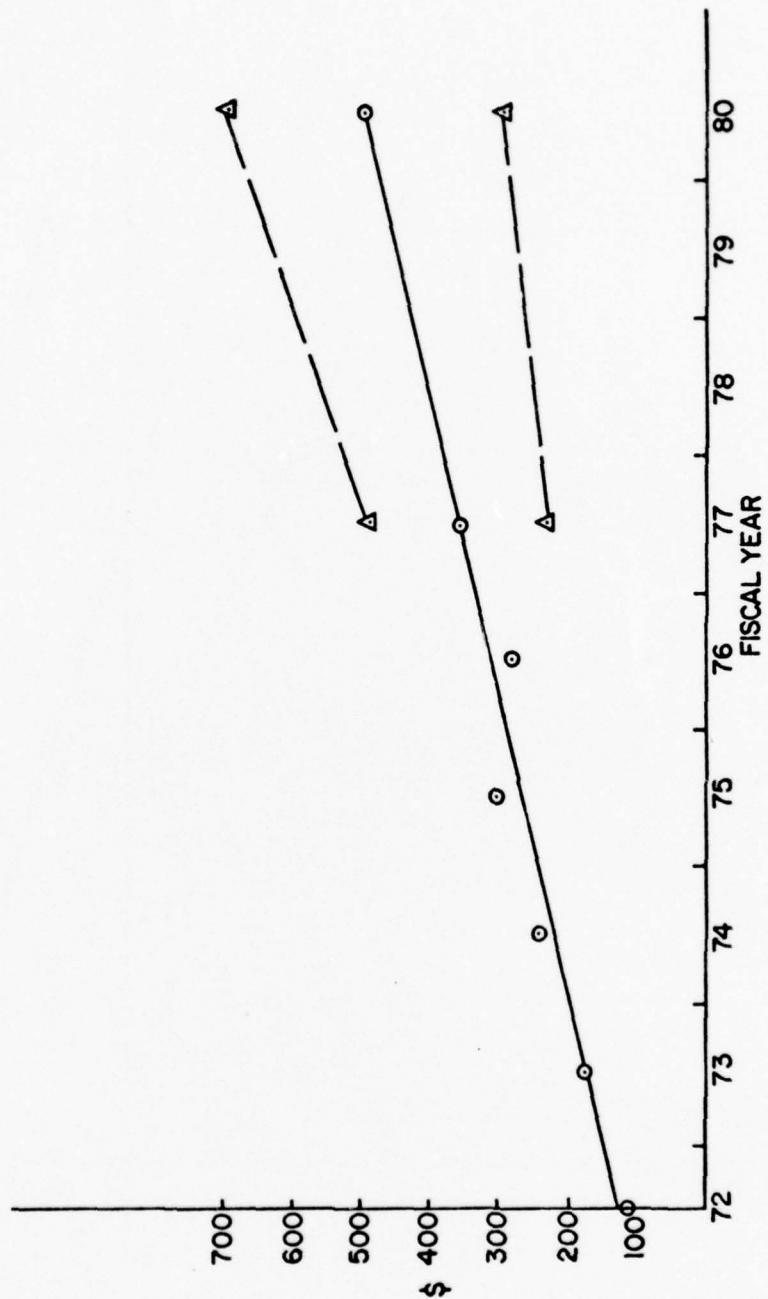


Figure 15. Average closing costs payments with projections and confidence intervals.

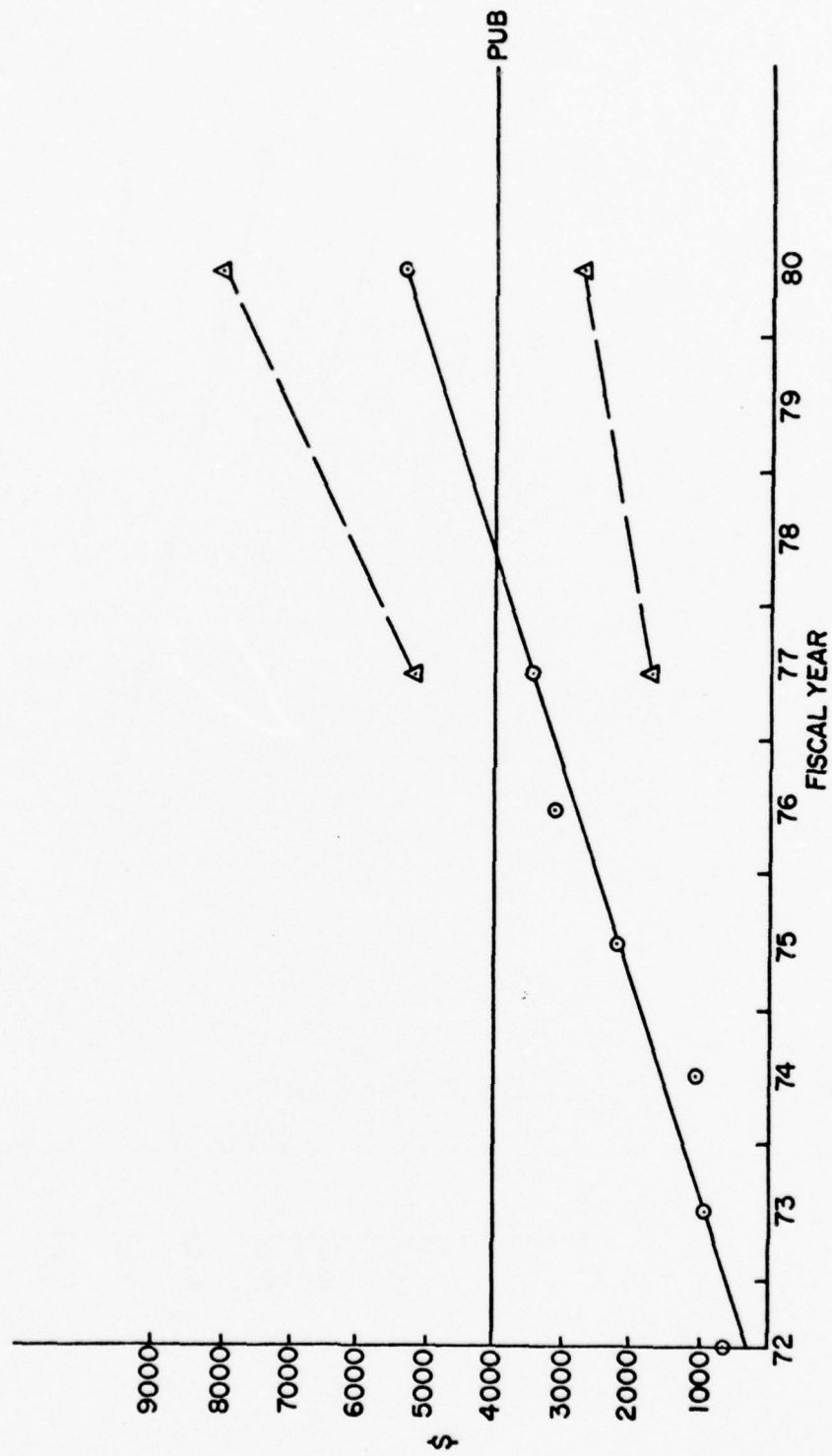


Figure 16. Average rental payments with projections and confidence intervals.

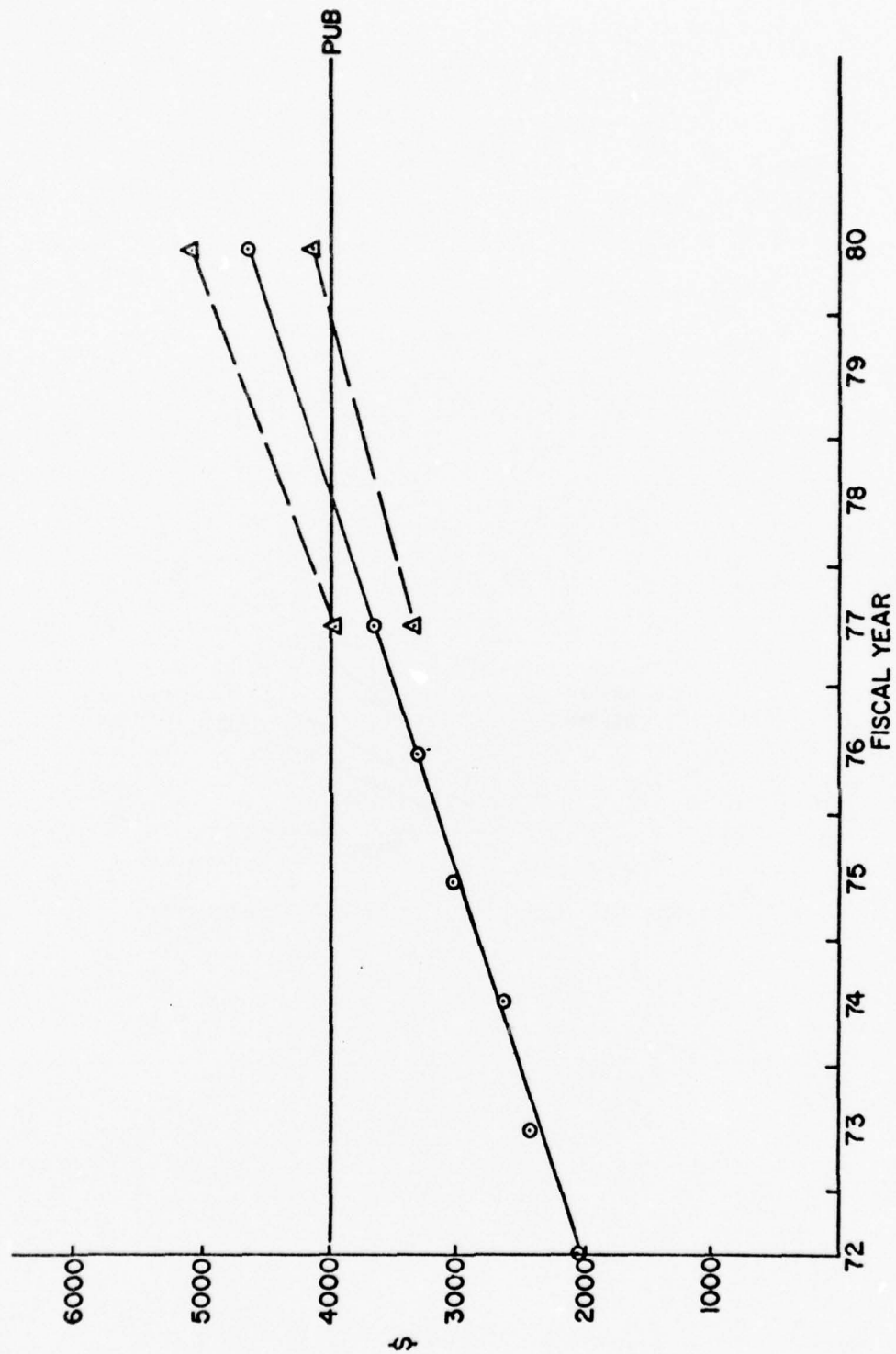


Figure 17. Average down payments with projections and confidence intervals.

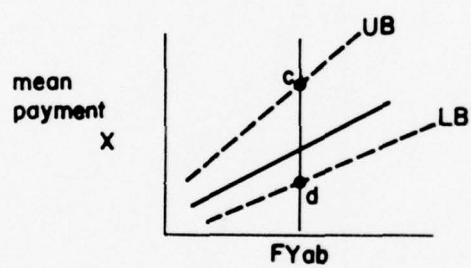


Figure 18. Example of confidence intervals.

APPENDIX A:

SUMMARY OF PAYMENTS BY STATE FY72 TO FY76

This section provides average payments per applicant by state, and projections through FY80 (Table A1). Table A2 provides the least squares equation constants for each state and an R^2 value. Tables A3 through A16 summarize individual payments made by fiscal year for FY72 to FY76. Tables A7 through A21 summarize all individual average payments, by state and fiscal year.

Data were insufficient to provide adequate projection values for several states (Tables A1 and A2). It is therefore recommended that the listed values not be used for any further cost-estimate calculations.

Table A1
Average Payment Per Applicant
State Data

	HISTORIC DATA					PROJECTIONS			
	72	73	74	75	76	77	78	79	80
Alabama	6225	2214	103000		922	33762	35507	37252	38997
* Alaska				3744	6011	8278	10545	12812	15079
Arkansas	2168	4526	1470	6308	1799	3567	3672	3776	3881
California	593	1542	670	4960	7255	8027	9701	11375	13049
Colorado	2318	5663	3033	7570	6322	7956	8947	9939	10930
* Connecticut	1670	500				-4180	-5350	-6520	-7690
Delaware			3840		NOT POSSIBLE	TO	CALCULATE		
* Florida	950	2926				10830	12806	14782	16758
Georgia	964	1868	1566	3897	2457	3655	4156	4658	5159
Hawaii	389				NOT POSSIBLE	TO	CALCULATE		
Idaho	2851	2757	3152	3184	3260	3414	3539	3663	3788
* Illinois	3333	3833		580		-1151	-2170	-3188	-4206
Indiana	3954	4974	3734	4021	5554	5122	5346	5571	5796
Iowa	4218	4173	4535	4989	1648	2615	2183	1751	1318
Kansas	1316	5678	3770	5645	5450	6842	7666	8489	9313
Kentucky	2601	2653	2837	5117	4468	5395	6014	6634	7254
Louisiana	4688	613	5059	6455	5129	6406	7078	7751	8423
* Maine	230	1007				4115	4892	5669	6446
Maryland					485	NOT POSSIBLE	TO	CALCULATE	
Massachusetts		425				NOT POSSIBLE	TO	CALCULATE	
Michigan		3965				NOT POSSIBLE	TO	CALCULATE	
Minnesota	4524	4006	4641	5848	12020	11258	12941	14625	16308
* Mississippi				1305	1970	2635	3300	3965	4630
Missouri	1569	2284	2367	7420	2197	5085	5724	6363	7003
Montana	2290	3860	3355	4624		5806	6456	7106	7755
Nebraska		2942	5639	6692	4703	6578	7212	7945	8479
New Hampshire	270					NOT POSSIBLE	TO	CALCULATE	
New Jersey	609	1765	1599	3123	2461	3430	3936	4442	4949
* New York	1434	2203				5279	6048	6817	7586
North Carolina	3335	3976	2180	2099	4485	3342	3384	3427	3469
North Dakota	8875	2500	8617	4929		4228	3656	3084	2512
Ohio	2748	2171	3127	3451	6797	6472	7410	8348	9286
Oklahoma	3690	3747	4646	4281	5013	5229	5547	5865	6183
Oregon	524	3285	4430	6607	7293	9486	11172	12858	14544
Pennsylvania	501	1340	2182	3548	4278	5298	6275	7251	8227
* South Carolina				375	1657	2939	4221	5503	6785
* South Dakota			75	2750		8100	10775	13450	16125
* Tennessee			1139	706		-160	-593	-1026	-1459
Texas	1466	1662	3287	2994	3490	4194	4732	5270	5808
* Virginia	5152	2039		1191		-1575	-2766	-3957	-5149
Washington	1760	2893	8426	8927	6692	10509	12099	13689	15278
West Virginia	1245	1857	2611	2986	3762	4341	4957	5574	6190
Wisconsin	4358	3899	5507	8451	4370	6690	7147	7605	8063

*Inadequate data for projections.

Table A2

Average Payment Per Applicant by State, Least Squares Equations*

	a_0	a_1	R^2
Alabama	-3416046.86	1744.97	.0035
Alaska	-4473581.00	2267.00	1.000
Arkansas	-202831.40	104.40	.0063
California	-3301866.80	1674.20	.7942
Colorado	-1952239.80	991.50	.4952
Connecticut	2308910.00	-1170.00	1.000
Delaware	NOT	POSSIBLE	TO CALCULATE
Florida	-3895722.60	1976.00	1.000
Georgia	-987810.60	501.50	.5057
Hawaii	NOT	POSSIBLE	TO CALCULATE
Idaho	-242722.20	124.50	.7849
Illinois	2011832.54	-1018.20	.7889
Indiana	-439110.40	224.70	.2073
Iowa	857470.20	-432.40	.2735
Kansas	-1621217.20	823.50	.4779
Kentucky	-1219950.00	619.80	.6971
Louisiana	-1322928.80	672.40	.2305
Maine	-1532014.00	777.00	1.000
Maryland	NOT	POSSIBLE	TO CALCULATE
Massachusetts	NOT	POSSIBLE	TO CALCULATE
Michigan	NOT	POSSIBLE	TO CALCULATE
Minnesota	-3316823.80	1683.40	.6433
Mississippi	-1312070.00	665.00	1.000
Missouri	-1258613.40	639.20	.1776
Montana	-1278650.70	649.70	.7344
Nebraska	-1246049.20	633.60	.2643
New Hampshire	NOT	POSSIBLE	TO CALCULATE
New Jersey	-997327.40	506.20	.7147
New York	-1515034.00	769.00	1.000
North Carolina	-80285.20	42.30	.0040
North Dakota	1135269.60	-572.10	.0578
Ohio	-1847558.40	937.80	.6654
Oklahoma	-623456.60	318.00	.7759
Oregon	-3323736.20	1686.00	.9635
Pennsylvania	-1924649.00	976.20	.9909
South Carolina	-2531575.00	1282.00	1.000
South Dakota	-5280375.00	2675.00	1.000
Tennessee	855881.00	-433.00	1.000
Texas	-1059432.00	538.00	.8078
Virginia	2353891.78	-1191.43	.7620
Washington	-3132525.60	1589.80	.5986
West Virginia	-1214084.00	616.30	.9919
Wisconsin	-897985.40	457.60	.1530

*Projection Value = $a_1x + a_0$
 where x = value of projection year

Table A3

AMD State Payments FY72 to FY76

AMD-STATE

	FISCAL YEAR				
	72	73	74	75	76
ALABAMA					393
ALASKA				1859	3003
ARKANSAS					283
CALIFORNIA		500			2028
COLORADO	400	500	913	1888	4613
CONNECTICUT					
DELAWARE					
FLORIDA					
GEORGIA	26	113	344		807
HAWAII	240				
IDAHO	75	591	802	903	
ILLINOIS					
INDIANA			1055	498	225
IOWA	813	1083	748		
KANSAS	609	451	440	660	979
KENTUCKY	740	155	678	140	940
LOUISIANA			1029	1293	1165
MAINE					
MARYLAND					
MASSACHUSETTS					
MICHIGAN		3965			
MINNESOTA		298			
MISSISSIPPI				197	281
MISSOURI	558	414	416	361	320
MONTANA	1029	683	907	624	
NEBRASKA				721	304
NEW HAMPSHIRE					
NEW JERSEY	555	2148	922	618	956
NEW YORK		819			
N. CAROLINA	117		75	601	775
N. DAKOTA					
OHIO	875	585	691	1433	2907
OKLAHOMA	505	1047	697	1261	984
OREGON		2427	1564	953	200
PENNSYLVANIA	720	818	654	540	886
S. CAROLINA				200	75
S. DAKOTA					
TENNESSEE			516		
TEXAS	715	846	1400	50	470
VIRGINIA	228			510	
WASHINGTON	932	861	2486	1631	1214
W. VIRGINIA	747	646	961	1336	1156
WISCONSIN				389	234
GRAND TOTAL	565	1139	879	1001	1147

Table A4

AMB State Payments FY72 to FY76

AMB-STATE -----	FISCAL YEAR				
	72	73	74	75	76
ALABAMA			103000		931
ALASKA					11994
ARKANSAS	420				
CALIFORNIA		1967			
COLORADO	1468	25519	1510206125	4119	
CONNECTICUT					
DELAWARE					
FLORIDA					
GEORGIA					150
HAWAII	3527				
IDAHO	75	500	4467	2369	
ILLINOIS					
INDIANA				437	521
IOWA		17448		10568	1085
KANSAS					759
KENTUCKY	463	1241	4355	15281	170
LOUISIANA			1461		
MAINE		258			
MARYLAND					
MASSACHUSETTS					
MICHIGAN					
MINNESOTA			30500		
MISSISSIPPI					433
MISSOURI	1500	57	529	4569	557
MONTANA	947	7968	335		
NEBRASKA				1054	4301
NEW HAMPSHIRE					
NEW JERSEY	500			1333	2692
NEW YORK					
N. CAROLINA			343	410	
N. DAKOTA			2500	10598	
OHIO	415	1374	3963	569	6500
OKLAHOMA	450	22	42		
OREGON			204		
PENNSYLVANIA	814	913	494	1287	3788
S. CAROLINA					
S. DAKOTA					
TENNESSEE				465	
TEXAS	1000	478			790
VIRGINIA					
WASHINGTON		6478	9884	500	303
W. VIRGINIA	519	371	707	6226	24743
WISCONSIN		2221	499		
GRAND TOTAL	777	3439	4167	17446	3462

Table A5

AMF State Payments FY72 to FY76

AMF-STATE	FISCAL YEAR				
-----	72	73	74	75	76
ALABAMA	10000				
ALASKA					
ARKANSAS					
CALIFORNIA					830
COLORADO					1037
CONNECTICUT					
DELAWARE					
FLORIDA					
GEORGIA	117	384	1080		115
HAWAII					
IDAHO				569	
ILLINOIS	4000			580	
INDIANA			176	243	1995
IOWA		447	470		1379
KANSAS	833	195	1046	2165	4637
KENTUCKY	139			288	175
LOUISIANA			180		336
MAINE					
MARYLAND					
MASSACHUSETTS					
MICHIGAN					
MINNESOTA				437	
MISSISSIPPI				410	1066
MISSOURI	79	182	434	1979	506
MONTANA		905	500		
NEBRASKA					4033
NEW HAMPSHIRE					
NEW JERSEY		1000			794
NEW YORK					
N. CAROLINA		40		833	574
N. DAKOTA					628
OHIO	359	161	397	835	
OKLAHOMA	236	97	205	205	
OREGON		404	1749	1363	
PENNSYLVANIA		4316	2631	2500	
S. CAROLINA					
S. DAKOTA					
TENNESSEE			400		
TEXAS	329	532	720	371	315
VIRGINIA				293	
WASHINGTON			5094		
W. VIRGINIA	170	225	1491	407	
WISCONSIN		397	574		
GRAND TOTAL	815	592	1089	1094	1271

Table A6

FMD State Payments FY72 to FY76

FMD-STATE -----	FISCAL YEAR				
	72	73	74	75	76
ALABAMA	390	363			
ALASKA				407	475
ARKANSAS	395	405	440	500	222
CALIFORNIA	299	280		440	440
COLORADO	335	453	460	418	413
CONNECTICUT	430	500			
DELAWARE			285		
FLORIDA	380	410			
GEORGIA	390	377	336	369	380
HAWAII	200				
IDAHO	414	437	440	370	380
ILLINOIS	500	500			
INDIANA	465	401	406	413	404
IOWA	441	465	500	485	
KANSAS	457	496	491	498	496
KENTUCKY	432	453	443	434	434
LOUISIANA	500	373	401	356	373
MAINE	230	367			
MARYLAND					485
MASSACHUSETTS		425			
MICHIGAN					
MINNESOTA	475	461	450	487	500
MISSISSIPPI				393	409
MISSOURI	445	459	464	457	446
MONTANA	413	424	388		
NEBRASKA		426	414	407	440
NEW HAMPSHIRE	270				
NEW JERSEY	442	434	430	455	450
NEW YORK	338	320			
N. CAROLINA	395	378	387	387	430
N. DAKOTA	475	500	463	400	
OHIO	461	454	467	476	483
OKLAHOMA	453	469	469	466	472
OREGON	428	444	447	484	435
PENNSYLVANIA	382	412	419	431	441
S. CAROLINA				175	500
S. DAKOTA				500	
TENNESSEE					
TEXAS	379	399	391	380	382
VIRGINIA		432		380	
WASHINGTON	435	422	424	393	350
W. VIRGINIA	436	412	431	447	432
WISCONSIN	468	477	462	449	423
GRAND TOTAL	406	417	436	433	428

Table A7

FMB State Payments FY72 to FY76

FMB-STATE -----	FISCAL YEAR				
	72	73	74	75	76
ALABAMA					2500
ALASKA					
ARKANSAS				2500	
CALIFORNIA		3611			
COLORADO	4492			5250	5648
CONNECTICUT					
DELAWARE					
FLO. IDA					
GEORGIA		2500			2500
HAWAII			2500		
IDAHO	10000	1000	7549		
ILLINOIS					
INDIANA		3806	4621	2500	
IOWA				2500	
KANSAS				2558	6139
KENTUCKY	2500	2500	6250	6250	2500
LOUISIANA			10000	6250	
MAINE		2500			
MARYLAND					
MASSACHUSETTS					
MICHIGAN					
MINNESOTA			2500		
MISSISSIPPI				2500	1463
MISSOURI	2983	4375	4112	2500	1834
MONTANA	3687	5596	3750		
NEBRASKA		9737	490	3789	3082
NEW HAMPSHIRE					
NEW JERSEY			2500	6250	10000
NEW YORK					
N. CAROLINA			2500	2500	
N. DAKOTA					
OHIO	3121	4833	6683	5425	10000
OKLAHOMA	2500	3526	2500	3214	3066
OREGON			2500		2500
PENNSYLVANIA	2500	2770	3460	3466	5175
S. CAROLINA					
S. DAKOTA				2500	
TENNESSEE					
TEXAS	2500	2500	2500	2500	3694
VIRGINIA					
WASHINGTON	2500	2500	2500	3322	4408
W. VIRGINIA	3499	3487	2793	3235	3585
WISCONSIN	2500	2500	3721		3741
GRAND TOTAL	2967	3171	3742	3418	4049

Table A8

FMF State Payments FY72 to FY76

FMF-STATE -----	FISCAL YEAR				
	72	73	74	75	76
ALABAMA		2500			
ALASKA					
ARKANSAS	2500		2500	2500	2500
CALIFORNIA		82		10000	2500
COLORADO		2500	3263	6250	10000
CONNECTICUT					
DELAWARE					
FLORIDA					
GEORGIA		8230			
HAWAII					
IDAHO	2500	2500	2500		
ILLINOIS	2750				
INDIANA	2500	3360	3603	3692	3946
IOWA	3835	3019	3318	6250	2500
KANSAS	2500	5655	2797	4439	4465
KENTUCKY	2500	2500	2500	2691	2814
LOUISIANA					
MAINE					
MARYLAND					
MASSACHUSETTS					
MICHIGAN					
MINNESOTA	3382	3147	2988	4990	6853
MISSISSIPPI				2500	2500
MISSOURI	2650	2470	2872	2940	3903
MONTANA	2500		2500		
NEBRASKA		7406	6886	4823	5644
NEW HAMPSHIRE					
NEW JERSEY	2509	2500	4754	6250	
NEW YORK					
N. CAROLINA	2749	4181	5014	4562	2980
N. DAKOTA			3496	5049	
OHIO	4138	3010	3551	3158	3212
OKLAHOMA	3557	2779	3291	4081	3511
OREGON		2500	2500	2500	
PENNSYLVANIA	2500	3286	2835	3171	5698
S. CAROLINA					2500
S. DAKOTA					
TENNESSEE			2500		
TEXAS	2798	2527	2831	2917	3606
VIRGINIA					
WASHINGTON	2500	4891	5000		
W. VIRGINIA	2500	2500	2500	2500	2782
WISCONSIN	4221	2812	2500	5123	2500
GRAND TOTAL	3164	3216	3262	3505	3639

Table A9

SB State Payments FY72 to FY76

SB-STATE -----	FISCAL YEAR				
	72	73	74	75	76
ALABAMA					
ALASKA					245
ARKANSAS	30				
CALIFORNIA		118			
COLORADO	117		500	500	
CONNECTICUT					
DELAWARE					
FLORIDA					
GEORGIA					
HAWAII					
IDAHO			350		
ILLINOIS					
INDIANA				384	500
IOWA					
KANSAS					500
KENTUCKY	20			7715	
LOUISIANA					
MAINE					
MARYLAND					
MASSACHUSETTS					
MICHIGAN					
MINNESOTA					
MISSISSIPPI					174
MISSOURI			146	500	
MONTANA		2666	277		
NEBRASKA				500	559
NEW HAMPSHIRE					
NEW JERSEY					
NEW YORK					
N. CAROLINA					
N. DAKOTA					
OHIO			4298	500	500
OKLAHOMA					
OREGON			211		
PENNSYLVANIA	187	250	903		199
S. CAROLINA					
S. DAKOTA					
TENNESSEE				241	
TEXAS		140			255
VIRGINIA					
WASHINGTON		454	473		
W. VIRGINIA					
WISCONSIN		35			
GRAND TOTAL	88	374	1347	1234	333

Table A10

SF State Payments FY72 to FY76

SF-STATE

	FISCAL YEAR				
	72	73	74	75	76
ALABAMA					
ALASKA					
ARKANSAS					
CALIFORNIA					500
COLORADO					669
CONNECTICUT					
DELAWARE					
FLORIDA					
GEORGIA					
HAWAII					
IDAHO					
ILLINOIS					
INDIANA			54	500	
IOWA			101		500
KANSAS			558	1119	1881
KENTUCKY	139			311	
LOUISIANA					
MAINE					
MARYLAND					
MASSACHUSETTS					
MICHIGAN					
MINNESOTA					
MISSISSIPPI					
MISSOURI			283	500	256
MONTANA					
NEBRASKA					
NEW HAMPSHIRE					
NEW JERSEY		500			500
NEW YORK					
N. CAROLINA					
N. DAKOTA	475			628	
OHIO	500	40	543	30	
OKLAHOMA	169				
OREGON		492	500	500	
PENNSYLVANIA			2757	2500	
S. CAROLINA					
S. DAKOTA					
TENNESSEE					
TEXAS	408	1095		500	418
VIRGINIA					
WASHINGTON			500		
W. VIRGINIA					
WISCONSIN		6848			
GRAND TOTAL	371	644	812	785	525

Table A11

RH State Payments FY72 to FY76

RH-STATE -----	FISCAL YEAR				
	72	73	74	75	76
ALABAMA		1084			
ALASKA				11263	13938
ARKANSAS	2300	11883		8366	4938
CALIFORNIA		6424	758		10751
COLORADO	4160	8565	6169	5379	13146
CONNECTICUT					
DELAWARE					
FLORIDA	2000	1500			
GEORGIA	4675	6757		7825	
HAWAII					
IDAHO	7000	10500	3400		
ILLINOIS		4000			
INDIANA	6310	5375	4073	4095	5516
IOWA	2429	185	3454		
KANSAS	1982	4097	4473	6284	6038
KENTUCKY	4072	2416	4219	5724	5460
LOUISIANA	4025		9324	9556	8568
MAINE					
MARYLAND					
MASSACHUSETTS					
MICHIGAN					
MINNESOTA	4346	5550	4043	13125	15000
MISSISSIPPI				2734	4208
MISSOURI	2006	2383	2942	902	3893
MONTANA	4055	4481		4000	
NEBRASKA		2110	6512	11942	13901
NEW HAMPSHIRE					
NEW JERSEY		4651	4338	6392	5180
NEW YORK					
N. CAROLINA	3438	7821	5273	3683	5243
N. DAKOTA	8400		6550		
OHIO	2979	2423	2802	2225	5609
OKLAHOMA	3735	5429	4465	4153	5782
OREGON		8207	10200	13500	12410
PENNSYLVANIA	1101	2447	4772	6378	7725
S. CAROLINA					
S. DAKOTA					
TENNESSEE					
TEXAS	1873	2307	2912	3392	2794
VIRGINIA	9710	4367			
WASHINGTON	4342	170	11659	12829	13490
W. VIRGINIA	1319	3302	3496	3682	3863
WISCONSIN	5235		9054	12508	10340
GRAND TOTAL	2944	3848	4466	6903	8285

Table A12

IIC State Payments FY72 to FY76

IIC-STATE -----	FISCAL YEAR				
	72	73	74	75	76
ALABAMA					
ALASKA					
ARKANSAS					
CALIFORNIA		6			2360
COLORADO			2587	1276	
CONNECTICUT					
DELAWARE					
FLORIDA					
GEORGIA		434		226	
HAWAII					
IDAHO					
ILLINOIS					
INDIANA		76	374	237	591
IOWA					
KANSAS	46	349	460	450	781
KENTUCKY	1496		11	263	
LOUISIANA			434		
MAINE					
MARYLAND					
MASSACHUSETTS					
MICHIGAN					
MINNESOTA					
MISSISSIPPI				42	
MISSOURI	1554	1843	239	902	1761
MONTANA	800				
NEBRASKA		140		69	
NEW HAMPSHIRE					
NEW JERSEY	2037	644	571	941	1990
NEW YORK					
N. CAROLINA			295	1873	1622
N. DAKOTA					
OHIO	2448	1171	783	1150	1632
OKLAHOMA	622	1029	622		1089
OREGON		3450		744	
PENNSYLVANIA	351	825	603	624	522
S. CAROLINA					49
S. DAKOTA					
TENNESSEE					
TEXAS	2086			271	
VIRGINIA					
WASHINGTON		1412	62	287	367
W. VIRGINIA	87	224	53		17
WISCONSIN					174
GRAND TOTAL	1295	1094	824	730	1019

Table A13

CC State Payments FY72 to FY76

CC-STATE -----	FISCAL YEAR				
	72	73	74	75	76
ALABAMA	62	25			
ALASKA					
ARKANSAS	76				
CALIFORNIA	251	267	582		155
COLORADO	34	277	252	262	722
CONNECTICUT					
DELAWARE					
FLORIDA	471	215			
GEORGIA	110	253		545	
HAWAII					
IDAHO	29	89			
ILLINOIS		333			
INDIANA	88	14	28	38	66
IOWA	49	128	153		
KANSAS	88	58	57	105	136
KENTUCKY	91	72	70	116	99
LOUISIANA	326		335	383	328
MAINE					
MARYLAND					
MASSACHUSETTS					
MICHIGAN					
MINNESOTA	78	13	1105		
MISSISSIPPI				73	191
MISSOURI	48	76	104	63	79
MONTANA	3				
NEBRASKA		150	480	63	116
NEW HAMPSHIRE					
NEW JERSEY	378	532	507	629	639
NEW YORK	389				
N. CAROLINA	213	347	290	733	659
N. DAKOTA			134		
OHIO	188	178	219	362	435
OKLAHOMA	56	54	84	105	140
OREGON		80	78	61	49
PENNSYLVANIA	267	358	462	612	452
S. CAROLINA					674
S. DAKOTA			75		
TENNESSEE					
TEXAS	144	121	114	107	161
VIRGINIA	139	211		108	
WASHINGTON	52	220	93	364	160
W. VIRGINIA	140	133	173	291	286
WISCONSIN	120	47	49	51	109
GRAND TOTAL	118	174	238	300	281

Table A14

SRP State Payments FY72 to FY76

SRP-STATE

	72	FISCAL YEAR			
		73	74	75	76
ALABAMA					
ALASKA				4000	3200
ARKANSAS		480			
CALIFORNIA	997	615			4000
COLORADO		330	1224	1850	3048
CONNECTICUT					
DELAWARE					
FLORIDA					
GEORGIA		565	1453	2261	2880
HAWAII					
IDAHO		352	984	2086	2880
ILLINOIS		2000			
INDIANA		480	885	1524	2880
IOWA		1140	1860	2640	
KANSAS			480	1841	
KENTUCKY	240	445	684	2086	3249
LOUISIANA		480	1149	2357	2446
MAINE		724			
MARYLAND					
MASSACHUSETTS					
MICHIGAN					
MINNESOTA		780	1200		
MISSISSIPPI				2097	2352
MISSOURI	360	636	641	2020	1677
MONTANA	420	736	2400		
NEBRASKA		120	2480	1317	2544
NEW HAMPSHIRE					
NEW JERSEY		913	1440	3637	3115
NEW YORK	1440				
N. CAROLINA		3500	1014	2952	1597
N. DAKOTA					
OHIO		842	1040	2036	2160
OKLAHOMA	1320	971	1469	2011	2413
OREGON	480	2280	660	1620	4000
PENNSYLVANIA		1102	929	2533	3437
S. CAROLINA					
S. DAKOTA					
TENNESSEE					
TEXAS	460	619	656	1965	3168
VIRGINIA				2176	
WASHINGTON		620	1360	3566	3760
W. VIRGINIA	240	549	1030	2291	2411
WISCONSIN		1040	1200	2915	3213
GRAND TOTAL	665	980	1111	2265	3156

Table A15

DP State Payments FY72 to FY76

DP-STATE -----	FISCAL YEAR				
	72	73	74	75	76
ALABAMA	2000	3044			
ALASKA				4000	
ARKANSAS					
CALIFORNIA		3445		4000	
COLORADO			889	3347	4000
CONNECTICUT	1240				
DELAWARE			3555		
FLORIDA		3317			
GEORGIA		500	841		
HAWAII					
IDAHO	1037	720		4000	
ILLINOIS					
INDIANA		2805	2379	1846	1512
IOWA	2321	2479	2768	2630	
KANSAS	478	2517	2456	2939	3475
KENTUCKY	2324	1835	2959	2490	2933
LOUISIANA			2034	2212	2020
MAINE					
MARYLAND					
MASSACHUSETTS					
MICHIGAN					
MINNESOTA	1620	2068	1148	4000	
MISSISSIPPI				1701	2472
MISSOURI	2099	2155	2160	2775	3148
MONTANA	3295	2377	2776		
NEBRASKA		1711	2121	3552	3946
NEW HAMPSHIRE					
NEW JERSEY		3759	3604	3882	3794
NEW YORK	2388	1869			
N. CAROLINA	1445		889	2077	3188
N. DAKOTA		2000		2000	
OHIO	2090	2801	3011	2522	3382
OKLAHOMA	2688	3134	2997	3146	3083
OREGON		2625	3957		4000
PENNSYLVANIA	2263	2341	2491	3496	3550
S. CAROLINA					
S. DAKOTA					
TENNESSEE					
TEXAS	2154	2339	2332	2613	2632
VIRGINIA					
WASHINGTON	1300		3900	3883	3447
W. VIRGINIA	1997	2005	2515	2426	2644
WISCONSIN		2311	2982	2958	1172
GRAND TOTAL	2027	2464	2643	3057	3323

Table A16

GT State Payments FY72 to FY76

GT-STATE

	FISCAL YEAR				
	72	73	74	75	76
ALABAMA	6226	2214	10300		922
ALASKA				3744	6011
ARKANSAS	2168	4526	1470	6308	1799
CALIFORNIA	593	1542	670	4960	7255
COLORADO	2318	5663	3033	7570	6322
CONNECTICUT	1670	500			
DELAWARE			3940		
FLORIDA	950	2926			
GEORGIA	964	1868	1566	3897	2457
HAWAII	389				
IDAHO	2851	2757	3152	3184	3260
ILLINOIS	3333	3833		580	
INDIANA	3954	4974	3734	4021	5554
IOWA	4218	4173	4535	4989	1648
KANSAS	1316	5678	3770	5645	5450
KENTUCKY	2601	2653	2837	5117	4468
LOUISIANA	4688	613	5059	6455	5129
MAINE	230	1007			
MARYLAND					485
MASSACHUSETTS		425			
MICHIGAN		3965			
MINNESOTA	4524	4006	4641	5848	12020
MISSISSIPPI				1305	1970
MISSOURI	1549	2284	2367	7420	2197
MONTANA	2290	3360	3355	4624	
NEBRASKA		2942	5639	6692	4703
NEW HAMPSHIRE	270				
NEW JERSEY	609	1765	1599	3123	2461
NEW YORK	1434	2203			
N. CAROLINA	3335	3976	2180	2099	4485
N. DAKOTA	8875	2500	8617	4929	
OHIO	2748	2171	3127	3451	6797
OKLAHOMA	3690	3747	4646	4281	5013
OREGON	524	3285	4430	6407	7293
PENNSYLVANIA	501	1340	2182	3548	4278
S. CAROLINA				375	1657
S. DAKOTA			75	2750	
TENNESSEE			1139	706	
TEXAS	1466	1652	3287	2994	3490
VIRGINIA	5152	2039		1191	
WASHINGTON	1760	2893	8424	8927	6692
W. VIRGINIA	1245	1857	2611	2986	3762
WISCONSIN	4358	3499	5507	9451	4370
GRAND TOTAL	1486	2304	3227	4276	4696

Table A17

FY72 Relocation Payments, by State -- Summary of Average Payments

FY72 RELOCATION PAYMENTS, BY STATE - SUMMARY OF AVERAGE PAYMENTS											
STATE	ACTUAL MOVING	FIXED MOVING	SEARCHING	REPLACE INCORP	CLOSING RENTAL	DOWN	TOTAL				
	OFFICE	HOUSE	FARM	HOUSE	HOUSE	HOUSE					
ALABAMA	10000	140									
ALASKA	420	345	30	2300	74	997	2114				
ARIZONA	400	334	117	4140	74		2114				
CALIFORNIA	24	3527					1470				
CONNECTICUT	74	74									
DELAWARE											
FLORIDA	24	3527									
GEORGIA	24	3527									
HAWAII	74	74									
IDaho	414	414									
ILLINOIS	414	414									
INDIANA	414	414									
IOWA	414	414									
KANSAS	414	414									
KENTUCKY	414	414									
LOUISIANA	414	414									
MAINE	414	414									
MARYLAND	414	414									
MASSACHUSETTS	414	414									
MICHIGAN	414	414									
MINNESOTA	414	414									
MISSISSIPPI	414	414									
MISSOURI	414	414									
MONTANA	414	414									
NEBRASKA	414	414									
NEW HAMPSHIRE	414	414									
NEW JERSEY	414	414									
NEW YORK	414	414									
N. CAROLINA	414	414									
N. DAKOTA	414	414									
OHIO	414	414									
OKLAHOMA	414	414									
OREGON	414	414									
PENNSYLVANIA	414	414									
S. CAROLINA	414	414									
S. DAKOTA	414	414									
TEXAS	414	414									
VIRGINIA	414	414									
WASHINGTON	414	414									
W. VIRGINIA	414	414									
WISCONSIN	414	414									
GRAND TOTAL	414	414									

Table A18

FY73 Relocation Payments, by State -- Summary of Average Payments

FY73 RELOCATION PAYMENTS, BY STATE -- SUMMARY OF AVERAGE PAYMENTS											
STATE	ACTUAL MOVING DWELL	FARM	HUS	FIXED MOVING DWELL	FARM	HUS	SEARCHING FARM	REPLACE HOUSING	INCR INITIAL	CLOSING COST	TOTAL
ALABAMA	363	2500						1084	25	3044	2214
ALASKA	405							11683		440	4526
ARIZONA	500	1967	82	118			6	6424	267	615	1642
CALIFORNIA	500	25619	2500					8565	277	330	5663
CONNECTICUT	500										500
DELAWARE	410							1500	215	3317	2026
FLORIDA	377	2500						6757	434	565	1848
GEORGIA											
HAWAII	384										
ILLINOIS	591	500						10500	89	352	2747
INDIANA	500							4000	333	2000	3433
IOWA	1083	17448	447	3806	3360		76	5375	14	440	4074
KANSAS	451	195		5655				185	128	1140	4173
KENTUCKY	155	1241						4097	349	58	4678
LOUISIANA	373	2500						2416	72	445	2453
MAINE	367	2500								480	413
MARYLAND										724	1007
MASSACHUSETTS	425										425
MICHIGAN	3645										3645
MINNESOTA	294							5550	13	780	2048
MISSISSIPPI	414	57						2383	76	636	2244
MISSOURI	483	7968		4375	2470	2686		4481		736	2377
MONTANA											
NEBRASKA								2110	140	150	1711
NEW HAMPSHIRE	2148							4651	644	913	3759
NEW JERSEY	819							500			1869
NEW YORK								7821	347	3500	3076
N. CAROLINA											
N. DAKOTA	585	1374									2500
OHIO	1047	22						2423	1171	174	2801
OKLAHOMA	2427	404						5429	1029	54	3171
OREGON								492	224	133	3747
PENNSYLVANIA	814	913						8207	3450	80	3245
RHODE ISLAND								2447	825	1102	2341
S. CAROLINA											
S. DAKOTA											
TENNESSEE	844	478						2307	121	619	1442
TEXAS								4367	211		2039
VIRGINIA											
WASHINGTON	861	6478						170	1412	220	2493
W. VIRGINIA	666	371						3382	224	133	1857
WISCONSIN	1281	397						35	6848	47	3800
GRAND TOTAL	1139	3439	592	417	3771	3216	374	3648	1094	174	2464

Table A19

FY74 Relocation Payments, by State -- Summary of Average Payments

FY74 RELOCATION PAYMENTS, BY STATE -- SUMMARY OF AVERAGE PAYMENTS											
STATE	ACTUAL DWELL	MOVING FUS	FARM DMELL	FIXED MOVING HUS	FARM DMELL	SPANCHING RUS	REPLACE FARM	INCR HOUSING	CLOSING INTRST	RENTAL COST	TOTAL
ALABAMA	103000										103000
ALASKA				440	2500						1470
ARKANSAS				460	3263	500		758	582	252	470
CALIFORNIA	813	1510						6169	2587	1224	3033
COLORADO											
CONNECTICUT				245							
DELAWARE											
FLORIDA											
GEORGIA	344		1080	336	2500	4230			1453	3555	3440
HAWAII											1446
IDAH0	802	4467		440	1000	350		3400		984	3152
ILLINOIS											
INDIANA	1055		176	406	4621	3603	54	4073	374	885	2379
IOWA	748		470	500	3318		101	3454	153	1860	2768
KANSAS	440		1046	441	2797		558	4473	460	57	480
KENTUCKY	478	4355		443	6250	2500		4219	11	70	684
LOUISIANA	1029	1461	180	401	10000			9324	434	335	1149
MAINE											2034
MARYLAND											
MASSACHUSETTS											5049
MICHIGAN											
MINNESOTA	30500			450	2500	2988		4043	1105	1200	1148
MISSISSIPPI											
MISSOURI	416	529	434	444	4112	2872	146	283	239	104	641
MONTANA	907	335	500	388	3750	2500	277				2168
NEBRASKA											2774
NEVADA				414	490	4886		6512		480	2480
NEW HAMPSHIRE											2121
NEW JERSEY	922			430	2500	4754		4338	571	507	1440
NEW YORK				387	2500	4014		5273	295	290	1014
N. CAROLINA	74	343									889
N. DAKOTA	2500			463				6550		174	
OHIO	491	3463	397	467	4684	7651	4298	543	783	219	1040
OKLAHOMA	497		205	469	2500	3241		4865	622	44	1469
OREGON	1584	204	1749	447	2500	2500	211	500	10200	78	660
PENNSYLVANIA	654	494	2631	419	3860	2835	903	2757	4772	462	928
RHODE ISLAND											2891
S. CAROLINA											
S. DAKOTA											
TEXAS	514		400	341	2500	2831		2912		75	
UTAH	1400		720						114	656	2332
VIRGINIA											
WASHINGTON	2484	9886	5094	424	2500	4000	473	500	11649	68	93
W. VIRGINIA	661	707	1491	431	2743	2500			3896	53	173
WISCONSIN	499	499	574	462	3721	2500			9056	49	1200
WYOMING											2982
GRAND TOTAL	879	4167	1089	436	3742	3262	1347	812	4966	824	1111
											2643
											3227

Table A20

FY75 Relocation Payments, by State -- Summary of Average Payments

FY75 RELOCATION PAYMENTS, BY STATE -- SUMMARY OF AVERAGE PAYMENTS												
STATE	ACTUAL DWELL	MOVING HUS	FARM HUS	ETED DWELL	MOVING HUS	FARM HUS	SEARCHING RUS	INCUB FARM	REFLEE MOUSNG	INCB INTHST	CLOSING COST	TOTAL
ALABAMA	1459			407	2500	2500			11243		4000	3744
ALASKA				500		10000			8366			6308
ARIZONA				440								4660
CALIFORNIA	1444	206125		414	5250	4250	500		5379	1276	262	7670
COLORADO												
CONNECTICUT												
DELAWARE												
FLORIDA												
GEORGIA				369					7825	226	545	3807
HAWAII												
IDAH0	903	2369	569	370	7549							
ILLINOIS												
INDIANA	494	437	243	413	2500	7692	384	500	4095	237	38	7144
IOWA				485	2500	4250						680
KANSAS	460	10568	2165	498	2554	4439	1119		6284	450	105	4021
KENTUCKY												4049
LOUISIANA	140	15201	288	434	6250	7691	7715	311	5724	263	116	5445
MAINE	1293			356	6250				9556			
MARYLAND												5117
MASSACHUSETTS												6455
MICHIGAN												
MINNESOTA				437		4990			13125			5848
MISSISSIPPI	197		410	487	2500	2500			2734	42	73	1701
MISSOURI	361	4569	1979	457	2500	2940	500	500	902	902	63	1705
MONTANA	624								4000			7420
NEBRASKA	721	1054		407	3789	4423	500		11942	69	63	4624
NEVADA												
NEW HAMPSHIRE	414	1333		455	6250	4250			6392	941	629	3123
NEW JERSEY												
NEW YORK	601	410	833	387	2500	4562			3683	1873	333	2977
NORTH CAROLINA												2000
NORTH DAKOTA												4029
OHIO	1433	10594	628	400	5049	5049			2229	1150	362	7451
OKLAHOMA	1261	569	875	476	5625	7154	500	628	4153	105	2011	4241
OREGON	453		205	466	3214	4041			500	13500	744	6607
PENNSYLVANIA	540	1287	2500	431	3466	7171			2500	6378	612	3548
RHODE ISLAND												
S. CAROLINA	200			175								374
S. DAKOTA				500	2500							2750
TENNESSEE	56	465	371	340	2500	2917	241	500	3392	271	107	2064
TEXAS	510		243	340								1191
VIRGINIA												
WASHINGTON	1431	500		393	3322	2500			12829	287	364	4027
W. VIRGINIA	1334	6226	407	447	3235				12506			2844
WISCONSIN	740			449	6123							4151
GRAND TOTAL	1001	17444	1094	433	3614	3595	1234	785	6903	730	300	4376

Table A21

FY76 Relocation Payments, by State -- Summary of Average Payments

FY76 RELOCATION PAYMENTS, BY STATE -- SUMMARY OF AVERAGE PAYMENTS													
STATE	ACTUAL MOVING			FIXED MOVING			SEARCHING			REPLACE INCOR			TOTAL
	OWELL	RUS	FARM	OWELL	RUS	FARM	RUS	FARM	HOUSING	INTREST	CLOSING	RENTAL	DOWN
ALABAMA	393	431		2500			245		13938		3200		922
ALASKA	3003	11994				2500			4938				6411
ARIZONA	243					2500							1799
CALIFORNIA	2028		830			2500			500	10751	2360	155	7555
COLORADO	4613	4119	1037	413	5648	10000			669	13146	722	3048	4322
CONNECTICUT													
DELAWARE													
FLORIDA													
GEORGIA	807	150	115	380	2500						2880		2457
HAWAII													
IDAH0				380							2880		3040
ILLINOIS													
INDIANA	225	521	1995	404		3045	500		5516	591	46	2880	1512
IOWA		1065	1379			2500							5554
KANSAS	979	759	4637	466	6139	4465	500		6038	781	136		3475
KENTUCKY	940	170	175	414	2500	2814			5460		99	3249	2933
KY0STANA	1165		336	373					8568		328	2446	2020
MAINE													4448
MARYLAND													5129
MASSACHUSETTS				485									485
MICHIGAN													
MINNESOTA				500		4853			15000				12020
MISSISSIPPI	241	433	1066	409	1463	2500	174		256	3893	1761	79	1078
MISSOURI	320	557	506	446	1834	1903					1677		2147
MONTANA													
NEBRASKA	304	4701	4033	440	3042	5644	559		13901		116	2544	4703
NEW HAMPSHIRE													
NEW JERSEY	956	2692	794	450	10000		500		5180	1990	639	3115	2441
NEW YORK													
N. CAROLINA	775		574	430		2980			5243	1622	659	1597	4485
N. DAKOTA													
OHIO	2907	6500		443	10000	7212	500		5609	1632	435	2160	6797
OKLAHOMA	684			472	3064	7511			5792	1089	140	2413	5413
OREGON	200			435	2500				12410		49	4000	7293
PENNSYLVANIA	464	3788		441	5175	5694	199		7725	522	452	3437	4278
S. CAROLINA	75												
S. DAKOTA				500		2500				49	674		1457
TENNESSEE													
TEXAS	470	790	315	382	3494	3606	255		418	2794	141	3168	3490
VIRGINIA													
WASHINGTON	1214	303		350	4408				13490	347	160	3740	4492
W. VIRGINIA	1154	24748		432	3585	2782			3843	17	286	2411	3742
WISCONSIN	234			423	3741	2500			10340	174	109	3213	4370
GRAND TOTAL	1147	3462	1271	428	4048	3639	333	525	8285	1019	281	3156	4494

APPENDIX B:

NUMBER OF PAYMENTS, APPLICANTS, AND AMOUNTS
PAID BY STATE, FY72 to FY76

Tables B1 to B5 show, for each state, how many payments were made in each fiscal year, how many applicants were paid, the total amount paid in each payment type, and average amount paid per applicant. Figure B1 shows FY76 relocation payments, by state.

Table B1

FY72 Relocation Payments, by State

FY72 RELOCATION PAYMENTS, BY STATE - NUMBER OF PAYMENTS, TOTAL AMOUNT, AVERAGE PAYMENT

ALABAMA #	1	1	1	1	1	2
\$	10000	340	390	62	2000	12452
AVE	10000			62	2000	6226
ARKANSAS #	2	2	1	1	1	3
\$	839	790	2500	60	2300	6505
AVE	420	395	2500	30	2300	2168
CALIFOR #	9	9	2690	1	3	10
NIA \$			299	251	2990	5031
AVE				251	997	593
COLORADO #	2	2	10	2	5	14
\$	800	2936	3350	234	20801	32447
AVE	400	1468	335	117	4160	2318
CONNECT #	1	1	430	1	1	1
ICUT \$			430		1240	1670
AVE					1240	1670
FLORIDA #	1	1	380	1	1	3
\$			380	471	2000	2851
AVE				471	2000	950
GEORGIA #	2	3	4	1	1	7
\$	51	352	1560	4675	110	6748
AVE	26	117	390	4675	110	964
HAWAII #	11	1	10			21
\$	2635	3527	2000			8162
AVE	240	3527	200			789
IDAHO #	1	1	7	2	3	8
\$	75	75	2900	14000	3110	22807
AVE	75	75	414	7000	1037	2851
ILLINOIS #	1	1	1			3
\$	4000	500	5500			10000
AVE	4000	500	2750			3333
INDIANA #	1	1	1	2	1	3
\$			465	5000	6310	11063
AVE			465	2500	6310	3954

Table B1 (Cont'd)

IOWA	#	1	9	6	3	3	3	10
\$	813	3965	23007	7287	146	6964	42182	
AVE	813	441	3835	2429	49	2321	4218	
KANSAS	#	2	14	2	3	2	2	16
\$	1218	833	6400	5946	91	617	955	21060
AVE	609	833	457	1982	46	88	478	1316
KENTUCKY	#	1	20	1	5	1	4	7
\$	740	1851	2500	20000	39	139	20359	1496
AVE	740	463	139	2500	20	139	4072	1496
LOUI	#	2	2	2	2	1	1	2
SIANA	\$	1000	8050	326	326	326	326	9376
AVE	500	4025	326	4025	326	326	4688	4688
MAINE	#	2	2	2	2	2	2	2
\$	460	460	460	460	460	460	460	460
AVE	230	230	230	230	230	230	230	230
MINNE	#	6	5	3	2	2	2	8
SOTA	\$	2850	14908	13039	156	3240	36193	36193
AVE	475	475	3382	4346	78	1620	4524	4524
MISSOURI	#	16	3	2	16	11	32	2
\$	8935	1500	236	5966	37094	17090	1546	720
AVE	558	1500	79	445	2983	2006	1554	360
MONTANA	#	2	24	3	7	1	6	2
\$	2058	947	9910	11060	2500	800	16	840
AVE	1029	947	413	3687	2500	4055	420	3295
NEW HAMP	#	1	1	1	1	1	1	1
SHIRE	\$	270	270	270	270	270	270	270
AVE	270	270	270	270	270	270	270	270
NEW	#	9	39	2	1	5	52	52
JERSEY	\$	4992	500	5016	2037	1802	31674	31674
AVE	555	500	442	2509	2037	378	609	609
NEW YORK	#	16	16	16	2	5	16	16
\$	5413	5413	5413	5413	5413	5413	5413	5413
AVE	338	338	338	338	338	338	338	338
NORTH	#	1	15	8	7	8	17	17
CAROLINA	\$	117	5920	21989	24066	1706	2890	56488
AVE	117	395	2749	3438	213	1445	3335	3335

Table B1 (Cont'd)

NORTH DAKOTA	#	1	475	1	475	8400	1	8475
AVE			475		8400			8475
OHIO	#	4	1	6	49	1	10	56
	\$	3499	415	2151	22600	3121	41378	153894
AVE		875	415	359	461	3121	4138	2748
OKLAHOMA	#	3	1	3	53	4	17	65
	\$	1516	450	707	23985	10000	60471	239444
AVE		505	450	236	453	2500	3557	3690
OREGON	#	5	5					5
AVE			2140					2420
			428					440
PENNSYLVANIA	#	12	5	373	2500	1	12500	389
	\$	8639	4071	142596	2500	373	17621	195020
AVE		720	814	382	2500	187	1101	2263
TEXAS	#	5	1	4	54	4	11	45
	\$	3477	1000	1316	20470	10000	30777	95321
AVE		715	1000	329	379	2500	2798	1466
VIRGINIA	#	4						4
	\$	911						20409
AVE		224						5152
WASHINGTON	#	2	17	2	2	3	6	20
	\$	1864	7390	5000	5000	13025	314	35193
AVE		932	435	2500	2500	4342	52	1760
WEST VIRGINIA	#	9	7	1	89	3	32	107
	\$	6724	3634	170	38810	11097	42194	133271
AVE		747	519	170	436	3699	1319	1245
WISCONSIN	#	12	1	13				23
	\$	5610	54870					100226
AVE		468	2500	4221				4158
GRAND TOTAL	#	87	28	25	908	23	116	1072
	\$	49164	21745	20379	368269	68236	367012	1592496
AVE		565	777	815	406	2967	3164	1486

Table B2

FY73 Relocation Payments, by State

FY73 RELOCATION PAYMENTS, BY STATE - NUMBER OF PAYMENTS, TOTAL AMOUNT, AVERAGE PAYMENT												
	ACTUAL MOVING DWELL BUS	FARM	FIXED MOVING DWELL BUS	SEARCHING BUS	FARM	REPLACE INCR HOUSING INTRST	CLOSING COST	RENTAL DOWN PAYMENT	TOTAL AVERAGE			
ALABAMA #	3	2	1090	5000	1084	1	25	6087	13286			
\$	363	2500	1084		1084	25	25	3044	2214			
AVE												
ARKANSAS #	3		1215		11883	1		480	13578			
\$	405		405		11883	480		480	4526			
AVE												
CALIFOR #	1	13	84	5	1	7	1	12	43	3	99	
\$	500	25577	23480	18056	82	44966	6	3206	26462	10335	152470	
AVE	500	1967	280	3611	82	6424	6	267	615	3445	1542	
COLORADO #	1	2	9	1	2500	3	1	2	2		15	
\$	500	51237	4075		2500	25694	277	660	84043		84043	
AVE	500	25619	453		2500	8565	277	330	5663		5663	
CONNECT #	1		1								1	
ICUT \$	500		500						500		500	
AVE	500		500						500		500	
FLORIDA #	2		820		1500	1	1	3317	5452	1	2	
\$	410		410		1500	215	215	3317	2926		2926	
AVE												
GEORGIA #	6	4	13	1	4	1	1	5	4	1	22	
\$	683	1535	4895	2500	27028	434	1266	2261	500	500	41099	
AVE	113	384	377	2500	6757	434	253	565	500	500	1868	
IDAH0 #	2	1	7	1	1	1	1	3	2	2	11	
\$	1182	500	3060	10000	10500	89	89	1056	1440	720	30327	
AVE	591	500	437	10000	10500	89	89	352			2757	
ILLINOIS #	2		2		1	1	2	1			2	
\$	1000		1000		4000	665	665	2000	7645		7645	
AVE	500		500		4000	333	333	2000	3833		3833	
INDIANA #	33	2	12		19	1	1	13	2	2	34	
\$	13249	7611	40324		102117	76	178	480	5609	159104	159104	
AVE	401	3806	3360		5375	76	14	480	2805	4974	4974	
IOWA #	3	2	12	7	1	1	1	3	9	9	22	
\$	3249	34896	893	21135	185	128	128	22310	91901		91901	
AVE	1083	17448	447	3019	185	128	128	1140	2479	4173	4173	

Table B2 (Cont'd)

KANSAS	#	3	2	30	14	19	2	19	7	34
	\$	1352	390	14880	70172	77849	697	1096	17621	193057
	AVE	451	195	496	5655	4057	349	58	2517	5678
KENTUCKY	#	1	2	15	5	5	4	4	5	18
	\$	155	2481	6800	12500	12080	287	1780	9174	47757
	AVE	155	1241	453	2500	2416	72	445	1835	2653
LOUISIANA	#	2	2	745	1	1	1	1	2	2
	\$			373				480	480	1225
	AVE									613
MAINE	#	1	5	1	1	2	2	2	6	6
	\$	258	1835	2500	1448	1448	1448	1448	6041	6041
	AVE	258	367	2500	724	724	724	724	1007	1007
MASSACHUSETTS	#	2	2	850	2	2	2	2	2	2
	\$			425					850	850
	AVE								425	425
MICHIGAN	#	9	9	35688	9	9	9	9	9	9
	\$	3965							35688	35688
	AVE								3965	3965
MINNESOTA	#	1	9	4150	7	5	3	2	4	16
	\$	298	22030	27748	40	27748	40	1560	8273	64099
	AVE	298	3147	5550	13	5550	13	780	2068	4006
MISSOURI	#	9	1	88	26	33	8	36	5	16
	\$	3728	57	40350	17500	78627	14743	2735	3180	34494
	AVE	414	57	459	4375	2383	1843	76	636	2155
MONTANA	#	3	4	14	2	5	1	7	1	24
	\$	2048	31873	1810	5331	22406	736	16434	92642	92642
	AVE	683	7968	905	2666	4481	736	2377	3840	3840
NEBRASKA	#	17	1	4	4	5	1	3	1	22
	\$	7250	9737	29625	10550	10550	140	450	120	6845
	AVE	426	9737	7406	2110	2110	140	150	120	1711
NEW JERSEY	#	11	3	108	2	13	4	28	3	14
	\$	23629	3000	46825	5000	60460	2577	14892	2740	52621
	AVE	2148	1000	434	500	4651	644	532	913	3759
NEW YORK	#	1	25	11216	36	67288	1869	79323	2203	2203
	\$	819		320						
	AVE	819								

Table B2 (Cont'd)

NORTH CAROLINA \$ AVE	# 40	1 40	17 6419 378	9 37631 4181	5 39104 7821	3 1735 347	5 10500 3500	24 95429 3476				
NORTH DAKOTA \$ AVE	# 1	1 500 500	1 500 500	1 500 500	1 500 500	1 500 500	1 500 500	1 500 500				
OHIO \$ AVE	# 2924 585	6 8246 1374	4 645 161	3 14500 4833	12 36123 3010	1 40 40	26 62897 2423	7 8194 1171	27 4795 178	26 21884 842	14 30220 2801	112 243143 2171
OKLAHOMA \$ AVE	# 4188 1047	1 22 22	3 292 97	9 31732 3526	25 64482 2779	4 492 492	34 184587 5429	3 3087 1029	36 1949 54	20 19416 971	10 31344 3134	102 382234 3747
OREGON \$ AVE	# 4854 2427	2 2020 404	5 11940 444	4 10000 2500	4 10000 2500	4 1968 492	5 41035 8207	1 3450 3450	4 321 80	2 4560 2280	9 23628 2625	31 101848 3285
PENNSYLVANIA \$ AVE	# 22908 818	8 7304 913	2 8631 4316	10 27696 2770	10 32862 3286	4 1000 250	69 168833 2447	1 825 825	18 6447 358	17 18732 1102	43 100679 2341	408 546642 1340
TEXAS \$ AVE	# 4232 846	4 1913 478	8 4257 532	1 2500 2500	22 55598 2527	3 420 140	8 18453 2307	6 727 121	4 14031 619	6 2476 2339	6 14031 2339	73 121162 1662
VIRGINIA \$ AVE	# 4	4 1730 432	4 1730 432	4 1730 432	4 1730 432	4 1730 432	4 1730 432	4 1730 432	4 1730 432	4 1730 432	4 1730 432	8 16310 2039
WASHINGTON \$ AVE	# 2582 861	2 12956 6478	6 2530 422	1 10565 4891	4 456 456	1 170 170	1 1412 1412	1 1412 1412	2 440 220	2 1240 620	2 43395 2893	15 43395 2893
WEST VIRGINIA \$ AVE	# 5165 646	3 1114 371	1 225 225	10 36866 3687	1 2500 2500	1 456 456	40 132060 3302	2 447 224	34 4516 133	29 16493 569	23 44132 2006	164 304478 1857
WISCONSIN \$ AVE	# 3842 1281	3 397 397	1 10960 477	1 2500 2500	11 30937 2812	2 70 35	11 75328 6848	1 47 47	10 465 47	2 2080 1040	6 13865 2311	36 140374 3899
GRAND TOTAL \$ AVE	# 106 120681 1139	53 182276 3439	42 24864 592	53 199889 3771	180 578795 3216	22 8221 374	326 1254334 3048	33 36088 1094	279 48424 174	218 213532 980	189 465613 2464	1591 3666045 2304

Table B3

FY74 Relocation Payments, by State

FY74 RELOCATION PAYMENTS BY STATE - NUMBER OF PAYMENTS, TOTAL AMOUNT, AVERAGE PAYMENT										
STATE	ACTUAL MOVING DOWELL BUS	FIXED MOVING DOWELL BUS	SEARCHING DOWELL BUS	REPLACE INCR DOWELL BUS	CLOSING SPITAL DO-N DOWELL BUS	TOTALS				
ALABAMA	1	103000	1	1	1	103000				
AVE	103000					103000				
ARKANSAS	1	2500	1	1	1	2500				
AVE	2500					2500				
CALIFORNIA	1	440	1	1	1	440				
AVE	440					440				
COLORADO	1	18	1	1	1	18				
AVE	18					18				
DELAWARE	1	245	1	1	1	245				
AVE	245					245				
GEORGIA	1	2159	1	1	1	2159				
AVE	2159					2159				
IDAHO	1	3209	1	1	1	3209				
AVE	3209					3209				
INDIANA	1	4718	1	1	1	4718				
AVE	4718					4718				
IOWA	1	2245	1	1	1	2245				
AVE	2245					2245				
KANSAS	1	3462	1	1	1	3462				
AVE	3462					3462				
KENTUCKY	1	2711	1	1	1	2711				
AVE	2711					2711				
LOUISIANA	1	47342	1	1	1	47342				
AVE	47342					47342				
MINNESOTA	1	30500	1	1	1	30500				
AVE	30500					30500				
MISSOURI	1	8314	1	1	1	8314				
AVE	8314					8314				
MONTANA	1	2720	1	1	1	2720				
AVE	2720					2720				
NEBRASKA	1	1375	1	1	1	1375				
AVE	1375					1375				
NEVADA	1	344	1	1	1	344				
AVE	344					344				
NEW HAMPSHIRE	1	1080	1	1	1	1080				
AVE	1080					1080				
NEW JERSEY	1	3209	1	1	1	3209				
AVE	3209					3209				
NEW MEXICO	1	4718	1	1	1	4718				
AVE	4718					4718				
NEW YORK	1	1055	1	1	1	1055				
AVE	1055					1055				
NORTH CAROLINA	1	2245	1	1	1	2245				
AVE	2245					2245				
NORTH DAKOTA	1	748	1	1	1	748				
AVE	748					748				
OHIO	1	37015	1	1	1	37015				
AVE	37015					37015				
OKLAHOMA	1	6149	1	1	1	6149				
AVE	6149					6149				
OREGON	1	3400	1	1	1	3400				
AVE	3400					3400				
PENNSYLVANIA	1	1317	1	1	1	1317				
AVE	1317					1317				
RHODE ISLAND	1	3454	1	1	1	3454				
AVE	3454					3454				
SOUTH CAROLINA	1	62625	1	1	1	62625				
AVE	62625					62625				
TENNESSEE	1	558	1	1	1	558				
AVE	558					558				
TEXAS	1	10640	1	1	1	10640				
AVE	10640					10640				
UTAH	1	443	1	1	1	443				
AVE	443					443				
VERMONT	1	8620	1	1	1	8620				
AVE	8620					8620				
VIRGINIA	1	401	1	1	1	401				
AVE	401					401				
WASHINGTON	1	1400	1	1	1	1400				
AVE	1400					1400				
WEST VIRGINIA	1	450	1	1	1	450				
AVE	450					450				
WISCONSIN	1	171	1	1	1	171				
AVE	171					171				
WYOMING	1	79350	1	1	1	79350				
AVE	79350					79350				
TOTALS	1	103000	1	1	1	103000				
AVE	103000					103000				

Table B3 (Cont'd)

NEBRASKA	#	16	14	9	5	2	8	22
AVE	\$	6620	490	61478	32540	480	4960	124059
		414	490	4886	4512	480	2480	2121
NEW JERSEY	#	6456	7	1	10	3	16	76
AVE	\$	922	28800	2500	43380	1712	8116	5760
			430	2500	4308	571	507	140
NORTH CAROLINA	#	1	32	1	7	2	10	36
AVE	\$	343	12769	2500	36911	589	2904	5070
		75	367	2500	5014	295	290	1014
NORTH DAKOTA	#	1	2	2	1	2	3	2
AVE	\$	2500	925	4991	6550	268	17314	17314
		2500	463	3496	6550	174	8417	8417
OHIO	#	11061	31701	7	19	6	22	96
AVE	\$	601	3963	397	53245	4697	4816	18724
			467	6688	2602	783	219	1040
OKLAHOMA	#	3	1	1	44	1	35	26
AVE	\$	2092	42	205	205249	622	2018	30958
		407	42	205	4665	622	84	1469
OREGON	#	4	2	6	3	2	2	3
AVE	\$	6256	407	4996	20400	156	1320	11870
		204	204	2500	10200	78	660	3957
PENNSYLVANIA	#	28	10	8	3	3	66	404
AVE	\$	18123	4941	21047	314944	7216	40172	54729
		454	494	2631	4772	603	462	928
SOUTH DAKOTA	#	1	1	1	1	1	1	1
AVE	\$	516	400	2500	2500	75	75	75
TENNESSEE	#	1	1	1	8	8	6	9
AVE	\$	516	400	2500	23296	911	3936	20990
					2912	114	656	2332
TEXAS	#	1	4	33	1	1	2	4
AVE	\$	1400	2481	12910	2500	945	500	233177
			720	2500	2831	68	557	2720
WASHINGTON	#	10	4	2	1	2	1	6
AVE	\$	2486	9886	5094	473	500	11659	68
								93
WEST VIRGINIA	#	11	2	3	166	1	51	24
AVE	\$	10567	1413	2982	218184	53	8846	28443
		961	707	1491	3896	53	173	1030
WISCONSIN	#	3	1	14	14	3	3	3
AVE	\$	1498	574	6470	126785	303	3600	4945
		499	574	3721	9956	49	1200	2942
GRAND TOTAL	#	184	63	62	1188	17	20	399
AVE	\$	161769	262547	67549	518146	22897	16232	1981568
		879	4167	1089	436	3742	3262	1347
								824
								238
								1111
								2643

AD-A075 511 CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN IL F/G 13/13
REAL ESTATE COST ESTIMATING TECHNIQUES FOR PL 91-646 RELOCATION--ETC(U)
SEP 79 U R POSKUS , G D STAMAS , S P STAWARZ IAO-RE-7T-1
UNCLASSIFIED CERL-TR-P-103 NL

2 OF 2
AD
A075511





NATIONAL BUREAU OF STANDARDS-1963-A

FY75 Relocation Payments, by State

96

Table B4 (Cont'd)

LOUISIA	#	18	13	2	15	11	6	2	32
NA	\$	23291	4640	12500	143347	4218	14143	4424	206563
AVE		1293	356	6250	9556	383	2357	2212	6455
MINNESO	#	2	2		2			2	13
TA	\$	875	975		26250			8000	76024
AVE		437	487		13125			4000	5848
MISSOURI	#	75	4	7	141	3	38	1	234
\$		27125	18276	13853	64555	7500	111742	500	556466
AVE		361	4569	1979	457	2500	2940	500	7420
MISSISSI	#	1	1	52	1	2			54
PPI	\$	197	410	20475	2500	5000			70507
AVE		197	410	393	2500	2500			1305
MONTANA	#	1							1
\$		424			4000				4624
AVE		624			4000				4624
NEBRASKA	#	4	2	105	10	6	1		121
\$		2887	2108	42820	37890	28938	500		809495
AVE		721	1054	407	3789	4823	500		6692
NEW JER	#	52	4	58	2	2			112
SEY	\$	32113	5334	26380	12500				349720
AVE		618	1333	455	6250	6250			3123
NO CAROL	#	6	1	48	1	9			64
INA	\$	3608	410	833	18614	2500	41058		134349
AVE		601	410	833	387	2500	4562		2099
N DAKOTA	#	1	1	3		3			6
\$		10598	628	1200	15147		628		2000
AVE		10598	628	400	5049		628		4929
OHIO	#	17	4	5	47	4	13	1	69
\$		27776	2277	4179	22390	22501	41065	500	238145
AVE		1633	569	835	476	5625	3158	500	3451
OKLAHOMA	#	4	1	83	14	76			140
\$		5044	205	38725	45000	310225			599389
AVE		1261	205	466	3214	4081			4281

Table B4 (Cont'd)

[illegible]

Table B5
FY76 Relocation Payments, by State

FY76 RELOCATION PAYMENTS, BY STATE										
		NUMBER OF PAYMENTS		TOTAL AMOUNT		AVERAGE		PAYMENT		TOTALS
STATE		ACTUAL MOVING "DWELL BUS"	FIXED MOVING "FARM BUS"	SEARCHING "FARM BUS"	REPLCE "FARM BUS"	INCP "FARM BUS"	CLOSING "FARM BUS"	PNTAL "FARM BUS"	DOWN "FARM BUS"	
ALABAMA	#	3	1	1	1	1	1	1	1	5
AVE	\$	1178	931	2500	2500					4409
ALASKA	#	3	2	24	1	8	2	2	2	27
AVE	\$	9010	23987	11400	245	111500	6400	3200	162267	162267
ARIZONA	#	3	1	475	245	13938				6111
ARIZONA	#	4	1	4	1	2	2	2	2	14
AVE	\$	1130	866	2500	2500	9876	14102			14102
CALIFORNIA	#	3	2	222	2500	4938				1799
AVE	\$	6063	1660	2640	4000	53753	2360	300	4000	79004
COLORADO	#	15	2	10	2	5	1	2	1	11
AVE	\$	69199	12356	2074	22591	20000	669	65731	2165	227442
GEORGIA	#	1	2	1	1	1	1	1	1	4
AVE	\$	407	150	340	2500					9827
IDaho	#	1	1	1	1	1	1	1	1	5
AVE	\$	407	150	340	2500					2457
INDIANA	#	2	2	19	14	13	1	5	2	30
AVE	\$	449	1041	7080	71024	500	71707	591	331	164111
IOWA	#	3	3	1	1	1	1	1	1	6
AVE	\$	3254	4136	2500	2500					9400
KANSAS	#	4	3	16	22	8	4	9	3	17
AVE	\$	3914	2277	13910	94239	500	1881	48307	3124	201439
KENTUCKY	#	4	2	44	1	35	42	39	22	103
AVE	\$	5442	340	36430	2500	94501	229316	3862	71467	460140
LOUISIANA	#	12	1	19	15	15	14	4	5	34
AVE	\$	13977	336	7090	126521	8568	4592	9782	10102	174400
MARYLAND	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
MINNESOTA	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
MISSISSIPPI	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
MISSOURI	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
NEBRASKA	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
NEVADA	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
NEW YORK	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
OHIO	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
OKLAHOMA	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
PENNSYLVANIA	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
RHODE ISLAND	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
SOUTH CAROLINA	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
SOUTH DAKOTA	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
TENNESSEE	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
TEXAS	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
UTAH	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
VIRGINIA	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
WASHINGTON	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
WEST VIRGINIA	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
WISCONSIN	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129
WYOMING	#	1	1	1	1	1	1	1	1	5
AVE	\$	1165	336	373	8568		328	2446	2020	5129

Table B5 (Cont'd)

MISSISS	#	5	7	3	44	2	4	1	12	16	5	5	59
Stops	\$	1404	3031	3198	17965	2925	10000	174	50497	3062	11760	12368	116220
Ave		241	433	1066	409	1463	2500	174	4208	101	2352	2472	1970
MISSOURI	#	51	2	4	44	2	28		31	25	6	9	157
	\$	16337	1114	4051	38764	3668	10297		1024	120096	10568	1981	24329
Ave		320	557	506	446	1834	3903		256	3493	1761	1677	3148
NEBRASKA	#	2	3	1	104	12	2		57	1	11	26	220
	\$	609	12904	4033	45790	36989	11288		792357	116	27544	102400	1034459
Ave		304	4301	4033	440	3082	5644		13901	116	2544	3466	4703
NH	#	15	2	13	20	1			1	5	2	3	49
JEPSEY	\$	14344	5383	10324	9084	10000			500	25000	3979	5751	120545
Ave		456	2692	794	450	10000			500	5180	1990	639	3115
NORTH	#	2	2	2	20	9			10	3	6	2	25
CAPOLINA	\$	1550	1147	574	8405	24823			52431	4466	3953	3164	9543
Ave		775	574	430	430	2980			5243	1622	559	1597	112132
OHIO	#	9	2	1	9	1	5		9	5	8	2	22
	\$	24167	13000	4350	10000	14059	500		50479	8159	3479	4320	13527
Ave		2907	6500	493	10000	1212	500		5009	1632	436	2160	3342
OKLAHOMA	#	1	45	7	45	67			24	3	14	9	93
	\$	984	21240	21460	235245				136774	3267	1961	21720	21578
Ave		984	472	3066	1511				5782	1089	140	2413	3083
OREGON	#	1	7	1	7	1			3	2	1	1	7
	\$	200	3050	2500	3050	2500			37230	980	4000	4000	51878
Ave		200	435	2500	435	2500			12410	49	4000	4000	7293
PFUNSVL	#	37	11	153	153	11	6		64	16	62	26	221
VANIA	\$	32770	41666	67465	56929	34190	596		494378	8351	28002	89343	92299
Ave		886	3788	441	5175	5698	199		7725	522	452	3437	3550
SOUTH	#	1	2	2	1000	2500	1		1	2	2	3	3
CAROLINA	\$	75	1000	2500	1000	2500			49	1347	4971		4971
Ave		75	500	2500	500	2500			49	674			1457
TEXAS	#	5	2	4	16	2	68		3	7	3	1	83
	\$	2351	1580	1259	6110	7398	245174		1255	19559	484	3168	2632
Ave		470	790	315	382	3694	3606		418	2794	161	3168	2632
WASHINGTON	#	35	2	10	45	10			43	1	7	56	141
TON	\$	42474	605	33205	44082				580067	367	1117	210568	31024
Ave		1214	303	350	4408				13480	367	160	3760	3647
WEST	#	1	2	73	73	5	7		20	1	21	24	81
VIRGINIA	\$	3468	49495	31530	17825	10471			77255	17	6007	73098	24442
Ave		1154	24748	432	3595	2782			3643	17	246	2811	2644
WISCON	#	2	9	9	3810	14964	12500		4	1	1	4	20
SIN	\$	468	3810	14964	12500				41360	174	109	12851	1172
Ave		234	423	3741	2500				10340	174	109	3213	1172
GRAND	#	222	50	39	880	67	286		12	388	45	249	192
TOTAL	\$	254595	173114	49558	376845	271200104870	3329		4299	3214684	45872	69850	605934
Ave		1147	3462	1271	428	4048	3639		333	525	8285	1019	3156

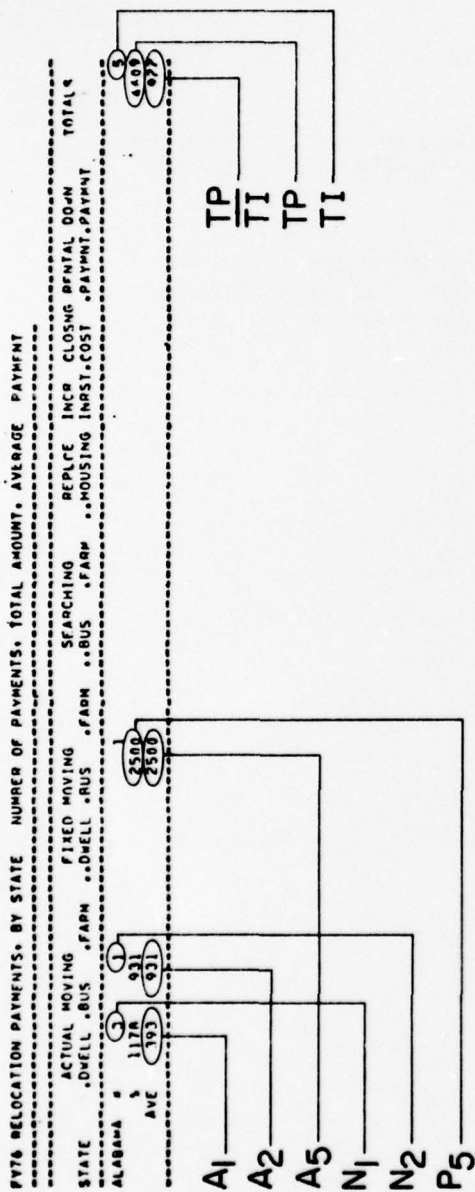


Figure B1. FY76 relocation payments, by state.

APPENDIX C:

SUMMARY OF PAYMENTS BY DISTRICT FY72 TO FY76

District averages with projections (Table C1) provide average payments per applicant by District and projections through FY80. Table C2 provides the least squares equation constants for each District and a measure of the fit, R^2 , of the least squares line to the data points, with 1.000 being a perfect fit, and 0.000 being no fit. Tables C3 through C16 summarize individual average payments made by fiscal year for FY72 to FY76.

Tables C17 to C21 provide individual average payments by state and by fiscal year. In each table, the TOTAL column provides the fiscal year state average per applicant payment.

Data were insufficient to provide adequate projection values for several states (Tables C1 and C2). It is therefore recommended that the listed values not be used for any further cost-estimate calculations.

Table C1

District Total Average Payments

		ACTUAL				PROJECTIONS**				
	FY	72	73	74	75	76	77	78	79	80
ALBUQUERQUE		2221	10259	5975	2808	28396	23402	27891	32381	36871
ALASKA					3745	6011	8277*	10543*	12809*	15075*
BALTIMORE		512	1483	2797	4478	5434	6793	8076	9360	10644
FT. WORTH		1531	1671	3424	2952	3319	4037	4522	5008	5494
GALVESTON		330	100				-820*	-1050*	-1280*	-1510*
HUNTINGTON		1392	1588	2227	2948	3524	4023	4585	5148	5710
KANSAS CITY		1451	3454	2642	2765	2743	3180	3369	3559	3748
LITTLE ROCK		610		440			185*	100*	15*	-70*
LOS ANGELES			754	670		7692	9658	12140	14622	17104
LOUISVILLE		2823	3003	3912	4474	5387	5900	6559	7219	7879
MEMPHIS			540			19	-155*	-328	-502	-676
MOBILE		5101	2392	103000		965	34253	36219	38185	40151
NASHVILLE			5375	1564	1518	1601	-328***	-1464***	-2601***	-3738***
NEW ENGLAND DIV		600	821				1705*	1926*	2147*	2368*
NEW ORLEANS		1415		4658	5371	4748	6559	7472	8385	9298
NEW YORK		1434	2203				5279*	6048*	6817*	7586*
NORFOLK		5152	2039		1192		-1573***	-2764***	-3955***	-5146***
N. CENTRAL DIV			3598			15146	18995*	22845*	26694*	30543*
OMAHA		3972	4004	4320	7120	7909	8762	9861	10960	12059
PHILADELPHIA		529	1447	1868	3117	3501	4377	5138	5899	6661
PITTSBURGH		825			2916	16500	15211	18385	21559	24733
PO DIV		389					*	*	*	*
PORTLAND		524	3285	8320	9266	6751	11160	13003	14847	16690
ROCK ISLAND		4387	4048	5106	7189	4599	6135	6492	6848	7205
SACRAMENTO		593	1575		4960	6811	8231	9813	11395	12977
SAVANNAH		2643	2968	1990	2172	3967	3304	3489	3674	3859
SEATTLE		2308	3738	3354	4624		5803	6460	7116	7773
ST. LOUIS		1691	2685	2462	2581	2128	2540	2617	2694	2771
TULSA		3714	3818	4650	4581	5237	5543	5924	6305	6685
VICKSBURG		4688			392	3189	1107	489	-130***	-748***
WALLA WALLA		2010	2917	4498	3543	5135	5683	6371	7059	7746

* Inadequate data for projections.

** Projections for FY77 through FY80 were based on actual payments made during FY72 through FY76. Actual payments for FY77 and FY78 were not available at the time this analysis was conducted.

*** Projected trend is decreasing.

Table C2
District Least Squares Equations

	a_0	a_1	R^2
Albuquerque	-8853130.80	4489.90	.4318
Omaha	-2163961.00	1099.00	.8395
Nashville	2247126.10	-1136.80	.5921
Rock Island	-698665.20	356.50	.2042
Seattle	-1291899.40	656.40	.7800
Tulsa	-747496.60	380.90	.9039
N. Central	-7591136.67	3849.33	1.000
Louisville	-1298722.80	659.90	.9670
Kansas City	-371462.00	189.50	.1711
Portland	-3633439.80	1843.50	.6378
Savannah	-362836.80	185.20	.1399
Walla Walla	-1353701.80	687.60	.7677
St. Louis	-149688.60	77.00	.9073
Mobile	-3852076.86	1965.77	.0045
Ft. Worth	-956192.40	485.70	.7098
New Orleans	-1798498.66	913.03	.7642
Huntington	-1107841.80	562.40	.9737
Philadelphia	-1500911.20	761.40	.9751
Baltimore	-2531477.80	1283.90	.9916
Memphis	343184.33	-173.67	1.000
Los Angeles	-4897421.55	2482.08	.8857
New England	-43521.20	221.00	1.000
Galveston	453890.00	-230.00	1.000
Sacramento	-3119580.65	1582.10	.3391
Norfolk	2353186.54	-1191.08	.7618
Vicksburg	1223866.70	-618.49	.3488
Pittsburgh	-6259882.64	3174.05	.6029
Alaska	-4471605.00	2266.00	1.000
Little Rock	168230.00	-85.00	1.000
New York	-1515034.00	769.00	1.000
POD	NOT	POSSIBLE	TO CALCULATE

$$\text{Projection Value} = a_1X + a_0$$

where X = value of projection year

Table C3

AMD District Payments FY72 to FY76

AMD-DISTRICT

	FISCAL YEAR				
	72	73	74	75	76
ALASKA				1859	3003
ALBUQUERQUE	400			2624	28396
BALTIMORE	645	708	724	1764	829
FT. WORTH	909	951	1400	50	470
GALVESTON					
HUNTINGTON	738	615	784	1679	940
KANSAS CITY	459	455	434	414	353
LITTLE ROCK					
LOS ANGELES		500			
LOUISVILLE	949	155	790	654	592
MEMPHIS					
MOBILE					392
NASHVILLE			463		842
NEW ENGLAND					
NEW ORLEANS	425	689	1029	1293	1165
NEW YORK		819			
NORFOLK	228			510	
NORTH CENTRAL		3598	1029		5292
OMAHA		500	812	1821	2588
PACIFIC	240				
PHILADELPHIA	652	1704	778	542	932
PITTSBURGH					
PORTLAND		2427	1876	1089	988
ROCK ISLAND	813	1093	748	389	234
SACRAMENTO					2028
SAVANNAH	56	113	290	544	608
SEATTLE	1029	682	906	624	
ST. LOUIS	1405	74	115	212	291
TULSA	505	1047	697	1244	1586
VICKSBURG				197	315
WALLA WALLA	646	752	1926	3162	4536
GRAND TOTAL	565	1138	879	1001	1147

Table C4

AMB District Payments FY72 to FY76

AMB-DISTRICT

		FISCAL YEAR				
	72	73	74	75	76	
ALASKA					11994	
ALBUQUERQUE	1468					
BALTIMORE	814	717	695	5893	9936	
FT. WORTH	1000	478			790	
GALVESTON						
HUNTINGTON	519	382	3157	2969	4607	
KANSAS CITY		57	486	4569	759	
LITTLE ROCK	420					
LOS ANGELES		657				
LOUISVILLE	453	1155	3692	5782	345	
MEMPHIS						
MOBILE			103000		931	
NASHVILLE			652	233	433	
NEW ENGLAND		258				
NEW ORLEANS			1460			
NEW YORK						
NORFOLK						
NORTH CENTRAL						
OMAHA		25618	18401	05180	4210	
PACIFIC	3527					
PHILADELPHIA	500	1500	193	1032	1612	
PITTSBURGH					16500	
PORTLAND			203		303	
ROCK ISLAND		7747	7999	10568	1085	
SACRAMENTO		2076				
SAVANNAH			343	410	150	
SEATTLE	947	6466	334			
ST. LOUIS	1500		759		557	
TULSA	450	22	42			
VICKSBURG						
WALLA WALLA	75	6500	6875	1902		
GRAND TOTAL	777	1138	4167	17447	3462	

Table C5

AMF District Payments FY72 to FY76

AMF-DISTRICT

		FISCAL YEAR				
	72	73	74	75	76	
ALASKA						
ALBUQUERQUE				400		
BALTIMORE		4315	2631	2500		
FT. WORTH	322	645	932	388	315	
GALVESTON						
HUNTINGTON	170	225	1020	407	100	
KANSAS CITY	267	186	788	2312	2133	
LITTLE ROCK						
LOS ANGELES						
LOUISVILLE	327	161	233	507	1628	
MEMPHIS						
MOBILE	10000					
NASHVILLE			400	378	1066	
NEW ENGLAND						
NEW ORLEANS	350	193	132	226	336	
NEW YORK						
NORFOLK				293		
NORTH CENTRAL						
OMAHA	2237			628	2036	
PACIFIC						
PHILADELPHIA		875			2642	
PITTSBURG						
PORTLAND		404	1749	1364		
ROCK ISLAND		430	496	439	1379	
SACRAMENTO					840	
SAVANNAH	117	315	1079	833	344	
SEATTLE		905	500			
ST. LOUIS			174	418	757	
TULSA	236	97	205	205		
VICKSBURG						
WALLA WALLA			5093	569		
GRAND TOTAL	815	592	1090	1095	1271	

Table C6

FMD District Payments FY72 to FY76

FMD-DISTRICT

	FISCAL YEAR				
	72	73	74	75	76
ALASKA				407	475
ALBUQUERQUE	339	412	456		
BALTIMORE	378	414	418	419	450
FT. WORTH	380	413	389	379	382
GALVESTON	330	100			
HUNTINGTON	440	434	440	452	436
KANSAS CITY	462	482	472	460	466
LITTLE ROCK	380		440		
LOS ANGELES					500
LOUISVILLE	451	414	431	434	419
MEMPHIS		380			4
MOBILE	385	410			500
NASHVILLE		455	422	392	408
NEW ENGLAND	290	351			
NEW ORLEANS	500	377	404	361	373
NEW YORK	338	320			
NORFOLK		432		380	
NORTH CENTRAL					
OMAHA	400	422	438	412	438
PACIFIC	200				
PHILADELPHIA	424	423	337	446	441
PITTSBURG	348			403	
PORTLAND	428	443	441	401	356
ROCK ISLAND	460	469	471	458	431
SACRAMENTO	299	279		440	428
SAVANNAH	394	377	376	382	434
SEATTLE	416	425	387		
ST. LOUIS	411	455	455	475	452
TULSA	452	470	470	473	475
VICKSBURG	500				397
WALLA WALLA	428	430	417	380	315
GRAND TOTAL	406	416	436	433	429

Table C7

FMB District Payments FY72 to FY76

FMB-DISTRICT -----	72	73	74	75	76
ALASKA					
ALBUQUERQUE	4492				
BALTIMORE	2500	2652	3413	3332	6570
FT. WORTH	2500			2500	2500
GALVESTON					
HUNTINGTON	3555	2930	3610	3432	3838
KANSAS CITY			4112	2500	2706
LITTLE ROCK					
LOS ANGELES					
LOUISVILLE	2500	5435	6778	4292	
MEMPHIS					
MOBILE					2500
NASHVILLE				2500	2500
NEW ENGLAND		2500	6250		
NEW ORLEANS		2500		6250	4888
NEW YORK					
NORFOLK					
NORTH CENTRAL					
OMAHA		9737	490	3909	3724
PACIFIC					
PHILADELPHIA		522	3823	3762	5338
PITTSBURGH				7768	
PORTLAND			2500	2877	3658
ROCK ISLAND	2500	2500	3314	2500	3741
SACRAMENTO		3611			
SAVANNAH		2500	2500	2500	2500
SEATTLE	3212	5595	3750		
ST. LOUIS	2983	4375			
TULSA	2500	3525	2500	3012	3661
VICKSBURG					425
WALLA WALLA		4250	2125	8366	10000
GRAND TOTAL	2967	3771	3742	3618	4048

Table C8

FMF District Payments FY72 to FY76

FMF-DISTRICT

	FISCAL YEAR				
	72	73	74	75	76
ALASKA					
ALBUQUERQUE					
BALTIMORE	2500	3286	2448	2723	5232
FT. WORTH	2823	2531	2760	2829	3456
GALVESTON					
HUNTINGTON	3571	2842	2922	2500	2578
KANSAS CITY	2728	4576	2972	3432	4152
LITTLE ROCK					
LOS ANGELES					
LOUISVILLE	2967	3079	3551	3413	3567
MEMPHIS					
MOBILE					
NASHVILLE			2500	2500	2500
NEW ENGLAND					
NEW ORLEANS	2687	2526	3056	3469	4021
NEW YORK					
NORFOLK					
NORTH CENTRAL					
OMAHA	2750	6425	6019	5144	7822
PACIFIC					
PHILADELPHIA	2509	2500	7320	6577	8030
PITTSBURG				2500	
PORTLAND		2500	2500	2500	
ROCK ISLAND	3949	2964	2916	5189	3951
SACRAMENTO		82		10000	2500
SAVANNAH	2749	4181	5818	4562	2932
SEATTLE	2500		2500		
ST. LOUIS	2506	2688	2576	2821	4115
TULSA	3498	2779	3274	4177	3545
VICKSBURG					
WALLA WALLA	2500	4413	3750		
GRAND TOTAL	3164	3215	3261	3505	3639

Table C9

SB District Payments FY72 to FY76

SB-DISTRICT

		FISCAL YEAR			
	72	73	74	75	76
ALASKA					245
ALBUQUERQUE	117				
BALTIMORE	187	250	902		221
FT. WORTH		105			255
GALVESTON					
HUNTINGTON					500
KANSAS CITY			146	500	500
LITTLE ROCK	30				
LOS ANGELES		328			
LOUISVILLE	20		4297	1874	500
MEMPHIS					
MOBILE					
NASHVILLE				241	174
NEW ENGLAND					
NEW ORLEANS					
NEW YORK					
NORFOLK					
NORTH CENTRAL					
OMAHA			500	500	559
PACIFIC					
PHILADELPHIA		250			154
PITTSBURG					
PORTLAND			211		
ROCK ISLAND		35			
SACRAMENTO		47			
SAVANNAH					
SEATTLE		1447	276		
ST. LOUIS					
TULSA					
VICKSBURG					
WALLA WALLA			431		
GRAND TOTAL	88	373	1346	1234	333

Table C10

SF District Payments FY72 to FY76

SF-DISTRICT

		FISCAL YEAR				
	72	73	74	75	76	
ALASKA						
ALBUQUERQUE						
BALTIMORE			2693	2500		
FT. WORTH	408	1094		500	408	
GALVESTON						
HUNTINGTON			1100			
KANSAS CITY			519	1120	702	
LITTLE ROCK						
LOS ANGELES						
LOUISVILLE	380	40	281	265		
MEMPHIS						
MOBILE						
NASHVILLE				311		
NEW ENGLAND						
NEW ORLEANS						
NEW YORK						
NORFOLK						
NORTH CENTRAL						
OMAHA	475			628	669	
PACIFIC						
PHILADELPHIA		500			500	
PITTSBURG						
PORTLAND		492	500	500		
ROCK ISLAND			101		500	
SACRAMENTO					500	
SAVANNAH						
SEATTLE						
ST. LOUIS				500	97	
TULSA	169					
VICKSBURG						
WALLA WALLA			500			
GRAND TOTAL	371	643	892	785	525	

Table C11

RH District Payments FY72 to FY76

RH-DISTRICT

	FISCAL YEAR				
	72	73	74	75	76
ALASKA				11263	13938
ALBUQUERQUE	5104	9847	15000		
BALTIMORE	1115	2693	5683	7260	2602
FT. WORTH	1872	2306	2912	3393	2794
GALVESTON					
HUNTINGTON	1439	2346	2641	3282	4280
KANSAS CITY	2010	3279	2961	3691	3848
LITTLE ROCK					
LOS ANGELES			758		4758
LOUISVILLE	3458	3845	3750	4443	5720
MEMPHIS					
MOBILE		1292			
NASHVILLE		7000	4500	3709	2395
NEW ENGLAND					
NEW ORLEANS			9324	9556	8568
NEW YORK					
NORFOLK	9710	4366			
NORTH CENTRAL					8319
OMAHA	4257	2755	5355	10255	13840
PACIFIC					
PHILADELPHIA		4572	4565	6015	7796
PITTSBURG	897			1104	
PORTLAND		8207	12017	12852	13420
ROCK ISLAND	4487	6074	7660	12597	11272
SACRAMENTO		6423			12249
SAVANNAH	3593	7348	5273	4374	5243
SEATTLE	3917	3723		4000	
ST. LOUIS	1994	2673	3605	2887	4580
TULSA	3695	5613	4728	5100	6197
VICKSBURG	4025				6459
WALLA WALLA	6019	10500	2308		
GRAND TOTAL	2944	3847	4966	6903	8285

Table C12

IIC District Payments FY72 to FY76

IIC-DISTRICT

	FISCAL YEAR				
	72	73	74	75	76
ALASKA					
ALBUQUERQUE					
BALTIMORE	351		436	497	394
FT. WORTH	2086			271	
GALVESTON					
HUNTINGTON	87	279	730	1184	2726
KANSAS CITY	1420	890	1065	901	1485
LITTLE ROCK					
LOS ANGELES					2360
LOUISVILLE	2257	1126	250	239	693
MEMPHIS					
MOBILE					
NASHVILLE				42	
NEW ENGLAND					
NEW ORLEANS			434		
NEW YORK					
NORFOLK					
NORTH CENTRAL					1546
OMAHA		140	2586	673	
PACIFIC					
PHILADELPHIA	2037	680	690	783	934
PITTSBURG					
PORTLAND		450	68	379	367
ROCK ISLAND					174
SACRAMENTO		6			
SAVANNAH		434	294	1544	1226
SEATTLE	800				
ST. LOUIS	137	4158	140	388	324
TULSA	622	1029	622	142	1089
VICKSBURG					
WALLA WALLA		412			
GRAND TOTAL	1295	1093	823	730	1019

Table C13

CC District Payments FY72 to FY76

CC-DISTRICT

	FISCAL YEAR				
	72	73	74	75	76
ALASKA					
ALBUQUERQUE	34				
BALTIMORE	274	314	394	467	330
FT. WORTH	144	121	113	107	161
GALVESTON					
HUNTINGTON	139	137	212	301	194
KANSAS CITY	59	71	105	61	83
LITTLE ROCK					
LOS ANGELES		619	582		74
LOUISVILLE	172	112	61	64	108
MEMPHIS					
MOBILE	266	120			678
NASHVILLE		60	28	65	137
NEW ENGLAND					
NEW ORLEANS			335	383	328
NEW YORK	389				
NORFOLK	139	213		108	
NORTH CENTRAL					500
OMAHA		182	313	153	570
PACIFIC					
PHILADELPHIA	344	467	478	653	565
PITTSBURG	266			2000	
PORTLAND		80	89	348	110
ROCK ISLAND	90	45	690	51	109
SACRAMENTO	251	149			235
SAVANNAH	202	375	290	345	662
SEATTLE	15	170			
ST. LOUIS	46	92	63	137	206
TULSA	57	54	82	100	137
VICKSBURG	326			294	220
WALLA WALLA	37	179		333	333
GRAND TOTAL	118	173	238	300	281

Table C14

SRP District Payments FY72 to FY76

SRP-DISTRICT

		FISCAL YEAR				
	72	73	74	75	76	
ALASKA				4000	3200	
ALBUQUERQUE			1224			
BALTIMORE		1186	1035	2119	3280	
FT. WORTH	460	653	750	2002	3168	
GALVESTON						
HUNTINGTON	240	669	934	2159	2830	
KANSAS CITY	480	300	568	2015	2500	
LITTLE ROCK						
LOS ANGELES						
LOUISVILLE	240	685	1178	2151	3451	
MEMPHIS		480			30	
MOBILE						
NASHVILLE			720	1868	2352	
NEW ENGLAND		724				
NEW ORLEANS		498	2741	2301	2446	
NEW YORK	1440	1869				
NORFOLK				2176		
NORTH CENTRAL						
OMAHA			2480	1675	2740	
PACIFIC		260				
PHILADELPHIA		936	1273	3143	3429	
PITTSBURG						
PORTLAND	480	2280	660	3461	3782	
ROCK ISLAND		1008	1388	2846	3213	
SACRAMENTO	997	615			4000	
SAVANNAH		1823	1233	2755	2239	
SEATTLE	420	736	2400			
ST. LOUIS	240	976	960	1620		
TULSA	1320	970	1469	2057	2413	
VICKSBURG						
WALLA WALLA		459	1091	2434	2820	
GRAND TOTAL	665	979	1111	2265	3156	

Table C15

DP District Payments FY72 to FY76

DP-DISTRICT

	FISCAL YEAR				
	72	73	74	75	76
ALASKA				4000	
ALBUQUERQUE			333	2592	
BALTIMORE	2204	1879	2696	3156	3167
FT. WORTH	2154	2338	2332	2613	2632
GALVESTON					
HUNTINGTON	2050	1980	2544	2235	2644
KANSAS CITY	1117	2520	2347	2816	3075
LITTLE ROCK					
LOS ANGELES					
LOUISVILLE	2163	2635	2812	2770	2885
MEMPHIS					
MOBILE	2000	3135			
NASHVILLE		2780	6000	1684	2472
NEW ENGLAND	1240				
NEW ORLEANS			2034	2212	2020
NEW YORK	2388				
NORFOLK					
NORTH CENTRAL					
OMAHA		2138	1980	3393	3950
PACIFIC					
PHILADELPHIA		2792	3243	3720	3803
PITTSBURG					
PORTLAND		2625	3924	3883	3502
ROCK ISLAND	2041	2247	2442	3137	1172
SACRAMENTO		3445		4000	
SAVANNAH	1445	500	877	2078	3188
SEATTLE	3295	2376	2776		
ST. LOUIS	1800	1986	2113	2114	
TULSA	2688	3031	2948	3207	3286
VICKSBURG					
WALLA WALLA	1142	720		4000	
GRAND TOTAL	2027	2463	2643	3063	3323

Table C16

GT District Payments FY72 to FY76

GT-DISTRICT

	FISCAL YEAR				
	72	73	74	75	76
ALASKA				3745	6011
ALBUQUERQUE	2221	10259	5975	2808	28396
BALTIMORE	512	1483	2797	4478	5434
FT. WORTH	1531	1671	3424	2952	3319
GALVESTON	330	100			
HUNTINGTON	1392	1588	2227	2948	3524
KANSAS CITY	1451	3454	2642	2765	2743
LITTLE ROCK	610		440		
LOS ANGELES		754	670		7692
LOUISVILLE	2823	3003	3912	4474	5387
MEMPHIS		540			19
MOBILE	5101	2392	10300		965
NASHVILLE		5375	1564	1518	1601
NEW ENGLAND	600	821			
NEW ORLEANS	7073	1624	4658	5371	4748
NEW YORK	1434	2203			
NORFOLK	5152	2039		1192	
NORTH CENTRAL		3598			15146
OMAHA	3972	4004	4320	7120	7909
PACIFIC	389				
PHILADELPHIA	529	1447	1863	3117	3501
PITTSBURG	825			2916	16500
PORTLAND	524	3285	8320	3266	6751
ROCK ISLAND	4387	4048	5106	7189	4599
SACRAMENTO	583	1575		4960	6811
SAVANNAH	2643	2968	1990	2172	3967
SEATTLE	2308	3738	3354	4624	
ST. LOUIS	1691	2685	2462	2581	2128
TULSA	3714	3818	4650	4581	5237
VICKSBURG	4688			392	3189
WALLA WALLA	2010	2917	4493	3543	5135
GRAND TOTAL	1486	2304	3227	4265	4696

Table C17

FY72 Relocation Payments, by District

FY72 RELOCATION PAYMENTS, BY DISTRICT - SUMMARY OF AVERAGE PAYMENTS												
DISTRICT	ACTUAL DWELL	MOVING HUS	FARM	FIXED DWELL	MOVING HUS	FARM	SEARCHING HUS	REPLACE FARM	HOUSING	INCR. INITST	CLOSING COST	TOTAL
ALASKA												
ALBUQUERQUE	400	1468		339	4492		117		5104		34	2221
BALTIMORE	645	414		378	2500	2500	187		1115	351	274	512
FT. NORTH	409	1000	322	340	2500	2823		408	1872	2086	144	1531
GALVESTON				330								320
HUNTINGTON	738	519	170	440	3555	3571			1439	87	139	1392
KANSAS CITY	459		267	442		2728	30		2010	1420	59	1451
LITTLE ROCK		420		360								510
LOS ANGELES												
LOUISVILLE	949	453	327	451	2500	2967	20	380	3458	2257	172	2023
MEMPHIS												
MORTLE			10000	385						266		5101
NASHVILLE												
NEW ENGLAND				240								400
NEW ORLEANS	425		350	500		2687						7073
NEW YORK				338								1434
NORFOLK	228								9710		139	5152
NORTH CENT												
OMAHA				400								
PACIFIC	240	3527	2237	200		2750		475	4257			3072
PHILADELPHIA	452	500		424		2509				2037	344	529
PITTSBURGH				348					897		266	525
PORTLAND				428								524
ROCK ISLAND	413			460	2500	3949			4487		90	4387
SACRAMENTO				209								
SAVANNAH	56		117	304		2749			3503		251	543
SEATTLE	1029	947		416	3212	2500			3917	800	15	2443
ST. LOUIS	1405	1500		411	2943	2506			1994	137	46	2302
TULSA	505	450	236	452	2500	3494						1491
VICKSBURG				500				169	3695	622	57	3714
WALLA WALLA	646	75		428		2500			4025		326	4488
									6019		37	2010
GRAND TOTAL	565	777	815	406	2967	3164	88	371	2944	1295	118	1486

Table C18

FY73 Relocation Payments, by District

FY73 RELOCATION PAYMENTS, BY DISTRICT - SUMMARY OF AVERAGE PAYMENTS													
DISTRICT	ACTUAL DWELL	MOVING BUS	FARM	FIXED DWELL	MOVING BUS	FARM	SEARCHING RUS	REPLACE HOUSING	INCR INTRST	CLOSING COST	GENERAL PAYMENT	DOWN	TOTAL
ALASKA													
ALBUQUERQUE	704	717	4315	412	2652	3286	250	9847		314	1184	1479	10269
BALTIMORE	451	478	645	413		2531	105	2693		121	653	2334	1483
FT. WORTH								2306					1471
GALVESTON	615	382	225	100	2930	2842							100
HUNTINGTON	455	57	186	482		4576		2346	279	137	669	1940	1488
KANSAS CITY								3279	890	71	300	2520	3454
LITTLE ROCK													
LOS ANGELES	500	657	161	414	5435	3079	328			619			754
LOUISVILLE	155	1155		380				3845	1126	112	695	2635	3003
MEMPHIS				410				1492		120	480		540
MOBILE												3135	2392
NASHVILLE								7000		60		2780	5375
NEW ENGLAND		258	193	455	2500						724		821
NEW ORLEANS	689			377	2500	2526					454		1424
NEW YORK	819			320							1869		2203
NORFOLK				432				4366		213			2039
NORTH CENT	3594											2138	3594
OMAHA	500	25618		422	9737	6425		2755	140	182	260		4007
PACIFIC													
PHILADELPHIA	1704	1500	875	423	522	2500	250	4572	680	467	936	2792	1447
PITTSBURGH	2427		404	443		2500		8207	450	80	2240	2625	3245
PORTLAND	1083	7747	430	449	2500	2964	35	6074		45	1004	2247	4048
POCK ISLAND													
SACRAMENTO	113	2076	315	279	3611	82	47	6423	6	149	615	3445	1575
SAVANNAH	482		905	377	2500	4181		7448	434	375	1823	500	2068
SEATTLE	74	6466		425	5595		1447	3723		170	734	2376	3738
ST. LOUIS				455	4375	2688		2673	4158	92	976	1986	2645
TULSA	1047	22	97	470	3525	2779		5613	1029	54	970	3031	3818
VICKSBURG													
WALLA WALLA	752	6500		430	6250	4413		10500	412	179	459	720	2917
GRAND TOTAL	1138	3439	592	416	3771	3215	373	3847	1043	173	979	2463	2304

Table C19

FY74 Relocation Payments, by District

FY74 RELOCATION PAYMENTS, BY DISTRICT - SUMMARY OF AVERAGE PAYMENTS

DISTRICT	ACTUAL MOVING		FIXED MOVING		SEARCHING		REPLACE		INCR		CLOSING		RENTAL		TOTAL
	DWELL	HUS	FARM	DWELL	RUS	FARM	HUS	FARM	HUS	FARM	INTRST	COST	PAYMT	DOWN	
ALABAMA															
ALBUQUERQUE				456			15000					1224	333		5075
BALTIMORE	724	695	2631	418			5683				436	394	1035	2696	2797
FT. WORTH	1400		932	388			2912					113	750	2332	3424
GALVESTON															
HUNTINGTON	784	3157	1020	440			1100				730	212	934	2544	2227
KANSAS CITY	434	466	788	472			519				1065	105	564	2367	2442
LITTLE ROCK				440											440
LOS ANGELES							758				582				470
LOUISVILLE	790	3692	233	431			3750				250	61	1174	2812	3912
MEMPHIS															
MORILE		103000													103000
NASHVILLE	463	652	400	422			4500				24	720	6000		1564
NEW ENGLAND															
NEW ORLEANS	1029	1460	132	404			9324				434	335	2741	2034	4458
NEW YORK															
NORFOLK															
NORTH CENT															
OMAHA	812	1840		438			5355				2586	313	2480	1980	4320
PACIFIC															
PHILADELPHIA	778	193		337			4565				690	478	1273	3243	1848
PITTSBURGH															
PORTLAND	1876	203	1749	441			12017				68	89	660	3924	8320
ROCK ISLAND	748	7999	496	471			7660				690	1388	2442		5106
SACRAMENTO															
SAVANNAH	290	343	1079	376			5273				2941	290	1233	877	1880
SEATTLE	904	334	500	387			2500						2400	2776	3354
ST. LOUIS	115	759	174	455			3605				140	63	960	2113	2442
TULSA	697	42	205	470			4728				622	82	1469	2941	4450
VICKSBURG															
WALLA WALLA	1926	6875	5093	417			2308						1091		4496
GRAND TOTAL	879	4167	1090	436			4966				823	238	1111	2643	3227

Table C20

FY75 Relocation Payments, by District

FY75 RELOCATION PAYMENTS, BY DISTRICT - SUMMARY OF AVERAGE PAYMENTS												
DISTRICT	ACTUAL DWELL	MOVING HUS	FARM	FIXED DWELL	MOVING RUS	FARM	SEARCHING RUS	REPLACE HOUSING	INCR. INTST	CLOSING COST	RENTAL PAYMENT	TOTAL
ALASKA	159			407				11263			4000	3745
ALBUQUERQUE	2424		400									2808
BALTIMORE	764	5853	2500	419	3332	2723		2500	7260	497	2119	4478
FT. WORTH	50		388	379	2500	2824		500	3393	271	2002	2652
GALVESTON												
HUNTINGTON	1679	2969	407	452	3432	2500		3282	1184	301	2159	2448
KANSAS CITY	414	4569	2312	460	2500	3432	500	3691	901	61	2015	2745
LITTLE ROCK												
LOS ANGELES												
LOUISVILLE	654	5782	507	434	4292	3413	1874	265	4443	239	2151	4474
MEMPHIS												
MOBILE												
NASHVILLE												
NEW ENGLAND		233	378	392	2500	2500	241	311	3709	42	1868	1518
NEW ORLEANS	1293		226	361	6250	3469			9556	383	2301	5371
NEW YORK												
NORFOLK	510		293	380						108	2174	1192
NORTH CENT												
OMAHA	1821	105180	628	412	3909	5144	500	628	10255	673	1675	7120
PACIFIC												
PHILADELPHIA	542	1032		446	3742	6577		6015	783	653	3143	3117
PITTSBURGH				403	7764	2500		1104		2000		2916
PORTLAND	1089		1364	401	2477	2500		500	12852	379	3451	3264
ROCK ISLAND	389	10568	438	458	2500	5189		12597		51	2846	7149
SACRAMENTO				440		10000						4400
SAVANNAH	544	410	833	382	2500	4562		4374	1544	345	2755	2172
SEATTLE	624							4000				4424
ST. LOUIS	212		418	475		2821		2887	388	137	1620	2581
TULSA	1244		205	473	3012	4177		5100	142	100	2057	4441
VICKSBURG	197									204		302
WALLA WALLA	3162	1402	569	380	8366				333	2434	4000	3543
GRAND TOTAL	1001	17447	1095	433	3618	3504	1234	785	6903	730	300	3063
												4265

Table C21

FY76 Relocation Payments, by District

FY76 RELOCATION PAYMENTS, BY DISTRICT - SUMMARY OF AVERAGE PAYMENTS												
DISTRICT	ACTUAL MOVING			FIXED MOVING			SEARCHING			REPLACE		
	DWELL	HUS	FARM	DWELL	HUS	FARM	BUS	FARM	HOUSING	INTRST	CLOSING	PENTAL
ALASKA	3003	11994		475			245		13938		3200	
ALBUQUERQUE	28194											
BALTIMORE	829	9936		450	6570	5232	221		2602	394	330	3280
FT. WORTH	470	790	315	382	2500	3456	255	408	2794		161	3168
GALVESTON												
HUNTINGTON	940	4407	100	436	3438	2578	500		4240	2726	194	2830
KANSAS CITY	353	759	2133	466	2706	4152	500	702	3848	1485	83	2500
LITTLE ROCK												
LOS ANGELES				500					4758	2360	74	
LOUISVILLE	592	345	1628	419		3567	500		5720	693	108	3451
MEMPHIS				4								30
MOBILE	392	931		500	2500						678	
NASHVILLE	842	433	1066	408	2500	2500	174		2395		137	2352
NEW ENGLAND												
NEW ORLEANS	1165		336	373	4888	4021			8568		328	2446
NEW YORK												
NORFOLK												
NORTH CENT	5242								8319	1546	500	
OHAMA	2588	4210	2036	438	3724	7822	559	669	13840		570	2740
PACIFIC												
PHILADELPHIA	932	1612	2642	441	5338	8030	154	500	7796	934	565	3429
PITTSBURGH		16500										
PORTLAND	988	303		356	3658				13420	367	110	3782
ROCK ISLAND	234	1085	1379	431	3741	1951		500	11272	174	109	3213
SACRAMENTO	2028											
SAVANNAH	604	150	840	428	2500	2500	500	500	12249		235	4000
SEATTLE			344	434	2932				5243	1226	662	2239
ST. LOUIS	291	557	757	452		4115		97	4580	324	206	
TULSA	1586			475	3661	3545			6197	1089	137	2413
VICKSBURG	315			397	425				6459		220	
WALLA WALLA	4536			315	10000						333	2820
GRAND TOTAL	1147	3462	1271	428	4048	3639	333	525	8285	1019	281	3156
												3323
												4444

APPENDIX D:

NUMBER OF PAYMENTS, APPLICANTS, AND AMOUNTS
PAID BY DISTRICT FY72 TO FY76

The tables in this appendix (Tables D1 to D5) have the same format as Tables B1 to B5 in Appendix B, except the data are by District.

Table D1

FY72 Relocation Payments, by District

FY72 RELOCATION PAYMENTS, BY DISTRICT NUMBER OF PAYMENTS, TOTAL AMOUNT, AVERAGE PAYMENT														
DISTRICT	DWELL	BUS	FARM	FIXED	MOVING	SEARCHING	REPLACE	INCR	CLOSING	DENTAL	DOWN	TOTAL	AVERAGE	
	#			RUS	FARM	RUS	FARM	HOUSING	INSTR	COST	PAYMENT			
ALBUQUERQUE	2	2	2	9	1	234	15311	3	2	2	2	12	24457	
AVE	400	2036	3050	4492	339	4492	5104	34	34	34	34	2221		
BALTIMORE	9	5	321	1	5	2	15	2	3	3	3	334		
AVE	5806	4071	121428	2500	12500	373	16724	701	822	6612	6612	171164		
AVE	645	814	378	2500	2500	187	1115	351	274	2204	2204	412		
FT WORTH	3	1	3	50	4	9	2	7	1	9	2	57		
AVE	2727	1000	966	18980	10000	25404	816	13103	2086	1297	920	10770		
AVE	909	1000	322	340	2500	2823	408	1872	2086	144	460	2154		
GALVESTON	3	3	990	330	3	990	330	3	990	330	3	990		
AVE	330	330	330	330	330	330	330	330	330	330	330	330		
MUNTING	11	7	1	100	4	7	35	3	37	2	9	122		
AVE	8115	3034	170	44010	14214	24000	50359	262	5160	440	18451	169454		
AVE	738	519	170	440	3555	3571	1439	87	139	240	2050	1162		
KANSAS	16	4	53	9	9	10	12	28	1	3	49			
AVE	7348	1069	24500	24549	2728	20095	17044	1662	480	3352	108095			
AVE	459	267	462	2728	2728	2010	1420	59	480	1117	1451			
LITTLE ROCK	2	1	1	60	2	2	60	2	2	2	2	2		
AVE	839	380	380	380	380	380	380	380	380	380	380	380		
LOUISVILLE	3	5	7	58	1	19	3	20	5	22	7	47		
AVE	2848	2266	2290	26129	2500	54374	39	1139	69155	11287	3774	1880	10416	
AVE	949	453	327	451	2500	2967	20	380	3458	2257	172	240	2163	
MOBILE	1	2	2	1	1	1	1	1	2	1	1	3		
AVE	10000	770	385	2000	2000	2000	2000	2000	533	2000	2000	15303		
AVE	10000	385	385	2000	2000	2000	2000	2000	2000	2000	2000	5101		
NEW ENGLAND	4	4	1160	290	4	1	1	1	1	1	1	4		
AVE	1160	290	290	290	290	290	290	290	290	290	290	290		
NEW ORLEANS	2	1	1	1	2	2	2	2	2	2	2	2		
AVE	450	350	500	500	4373	4373	4373	4373	4373	4373	4373	4373		
AVE	425	350	500	500	2687	2687	2687	2687	2687	2687	2687	2687		
NEW YORK	16	16	5413	338	16	16	16	16	16	16	16	16		
AVE	5413	338	338	338	338	338	338	338	338	338	338	338		
MORFOLK	4	4	911	278	2	2	2	2	2	2	2	2		
AVE	911	278	278	278	278	278	278	278	278	278	278	278		
AVE	228	228	228	228	228	228	228	228	228	228	228	228		
OMAHA	2	2	2	2	2	2	2	2	2	2	2	2		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237	400	2237	400	2237	400	2237	400	2237	400		
AVE	4475	800	4475	800	4475	800	4475	800	4475	800	4475	800		
AVE	2237	400	2237</											

Table D1 (Cont'd)

[illegible]

Table D2

FY73 Relocation Payments, by District

FY73 RELOCATION PAYMENTS, BY DISTRICT NUMBER OF PAYMENTS, TOTAL AMOUNT, AVERAGE PAYMENT														
DISTRICT	ACTUAL MOVING		FIXED MOVING		SEARCHING		REPLACE		INCR		CLOSING		RENTAL	
	OWELL	BUS	FARM	OWELL	BUS	FARM	RUS	FARM	HOUSING	INTERST	COST	PAYMENT	DOWN	TOTAL
AVERAGE														
ALBUQUERQUE	2	2	2	2	2	2	2	2	2	2	2	2	2	2
AVE	825	412	825	412	825	412	825	412	825	412	825	412	825	412
BALTIMORE	21	6	2	275	19	2	2	2	2	2	2	2	2	2
AVE	14872	4304	6631	113970	21221	32862	500	183154	314	13052	60131	452511	452511	452511
BOSTON	708	717	4315	414	2652	3286	250	2693	314	1186	1879	1483	1483	1483
FT WORTH	3	4	6	33	5	3	4	3	3	3	3	3	3	3
AVE	2854	1913	3870	13620	12655	420	3284	18453	727	1960	14031	76173	76173	76173
GALVESTON	478	645	413	413	2531	105	1094	2306	121	453	2334	1471	1471	1471
AVE	100	100	100	100	100	100	100	100	100	100	100	100	100	100
HUNTINGTON	12	1	1	155	9	4	42	3	43	29	21	176	176	176
AVE	7382	382	225	47375	28366	11369	98561	837	5923	19465	41549	279414	279414	279414
KANSAS CITY	11	1	6	57	19	19	31	6	16	1	12	76	76	76
AVE	5006	57	1119	27530	84952	4576	101679	7124	2541	300	30243	262771	262771	262771
LOS ANGELES	1	1	1	657	328	2	328	1459	1459	1459	1459	1459	1459	1459
AVE	500	657	500	657	328	2	328	1459	1459	1459	1459	1459	1459	1459
LOUISVILLE	1	10	4	119	6	24	1	40	7	34	31	14	14	14
AVE	155	11459	645	49309	32611	80078	40	153613	7840	3793	21232	47430	47430	47430
MEMPHIS	155	1155	161	414	5435	3079	40	3645	1126	112	685	2634	2634	2634
AVE	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
MOBILE	2	2	2	2	2	2	2	2	2	2	2	2	2	2
AVE	410	410	410	410	410	410	410	410	410	410	410	410	410	410
NASHVILLE	2	2	2	2	2	2	2	2	2	2	2	2	2	2
AVE	910	910	910	910	910	910	910	910	910	910	910	910	910	910
NEW ENGLAND	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AVE	258	258	258	258	258	258	258	258	258	258	258	258	258	258
NEW ENGLAND	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145
AVE	531	531	531	531	531	531	531	531	531	531	531	531	531	531
NEW ENGLAND	1448	1448	1448	1448	1448	1448	1448	1448	1448	1448	1448	1448	1448	1448
AVE	720	720	720	720	720	720	720	720	720	720	720	720	720	720

Table D2 (Cont'd)

[illegible]

Table D3

FY74 Relocation Payments, by District

FY74 RELOCATION PAYMENTS, BY DISTRICT- NUMBER OF PAYMENTS, TOTAL AMOUNT, AVERAGE PAYMENT													
DISTRICT	ACTUAL MOVING			FIXED MOVING			SEARCHING			REPLACE			TOTAL
	DWELL	BUS	FARM	DWELL	BUS	FARM	BUS	FARM	HOUSING	INCP	CLOSING	RENTAL	
AVERAGE													
ALBUQUERQUE	1	3	1370	1	15000	1	1	1	1	1	1	1	3
AVE	1	3	456	1	15000	1	1	1	1	1	1	1	3
BALTIMORE	19	6	8	199	11	15	3	4	54	6	63	33	29
AVE	13762	4170	21047	83097	37549	34729	2708	10771	306930	2736	24873	34181	75495
BALTIMORE	724	695	2631	418	3413	2444	902	2693	5683	456	394	1035	2696
AVE	724	695	2631	418	3413	2444	902	2693	5683	456	394	1035	2696
FT WORTH	1	3	32	32	38	38	8	8	8	8	8	8	9
AVE	1400	2797	12430	104887	2760	2760	23296	23296	23296	911	4500	20900	171211
AVE	1400	2797	12430	104887	2760	2760	23296	23296	23296	911	4500	20900	171211
HUNTINGTON	24	3	4	172	18	10	1	56	6	53	38	33	218
AVE	10030	9471	4082	75755	64995	29228	1100	147901	4385	11267	35507	83972	445383
AVE	784	3157	1020	440	3610	2922	1100	2641	730	212	934	2544	2227
KANSAS CITY	28	11	8	147	2	54	3	7	58	25	69	11	30
AVE	12161	5356	14191	69450	8224	160522	439	3634	171739	26628	7246	6250	70419
AVE	434	486	788	472	4112	2972	146	519	2941	1065	105	568	2347
LITTLE ROCK	1	1	440	1	440	440	1	1	1	1	1	1	1
AVE	1	1	440	1	440	440	1	1	1	1	1	1	1
LOS ANGELES	2	1	1	1	1	1	1	1	1	1	1	1	2
AVE	1	1	1	1	1	1	1	1	1	1	1	1	2
Louisville	9	8	11	81	7	27	4	4	30	3	20	13	19
AVE	7112	31701	2563	34945	47451	94888	17191	1126	112516	750	1223	15320	51433
AVE	750	3692	233	431	6778	3551	4297	281	3750	250	61	1178	2812
MOBILE	1	1	1	1	1	1	1	1	1	1	1	1	1
AVE	103000	103000	103000	103000	103000	103000	103000	103000	103000	103000	103000	103000	103000
Nashville	2	1	1	1	1	1	1	1	1	1	1	1	12
AVE	926	652	400	2960	2500	2500	4500	4500	4500	115	720	6000	18773
AVE	463	652	400	422	2500	2500	4500	4500	4500	28	720	6000	1464

Table D3 (Cont'd)

NEW ORL	#	46	3	2	23	2	12	25	3	24	3	6	70
FANS	\$	47344	4382	264	9300	12500	36672	233185	1303	8050	4224	12202	308806
AVE		1029	1460	132	404	6250	3056	9324	434	335	2741	2034	4458
OMAHA	#	5	3	13	14	1	12	12	2	11	2	10	45
	\$	4064	5520	14455	490	72232	500	64261	5173	3442	4960	194402	4320
AVE		812	1840	478	490	6019	500	5345	2586	313	2480	1590	4320
PHILADEL	#	17	4	237	14	4	20282	37	9	43	23	25	272
AVE		778	193	337	3823	7320		168905	6212	25323	29288	81063	508193
PORTLAND	#	7	2	14	1	2	1	3	21	1	4	2	30
	\$	13133	407	4996	6180	2500	5000	211	1500	252361	68	713	1320
AVE		1876	203	1749	441	2500	2500	211	500	12017	68	40	460
POCKES	#	3	4	25	3	18	1	19	1	10	7	8	50
LANO	\$	2245	31998	11770	9942	52505	101	145552	608	9720	19543	284887	4106
AVE		748	7999	471	3314	2916	101	7660	69	1398	2442	4106	4106
ST LOUIS	#	1	2	54	14	1	1	21	1	12	2	9	44
	\$	115	1518	174	24600	34074		75706	140	758	1920	19014	140021
AVE		115	759	174	455	2576		3605	140	63	960	2113	2442
SAVANNAH	#	5	1	2	40	2	4	7	2	10	10	4	52
	\$	1450	343	2159	15059	5000	23212	36911	589	2904	12333	3500	103529
AVE		290	343	1079	376	2500	5818	5273	294	290	1233	877	1000
SEATTLE	#	3	4	1	4	2	1	2			1	3	4
	\$	2720	1330	500	1550	7500	2500	553			2400	4328	24817
AVE		906	334	500	387	3750	2500	276			2400	2774	3354
TULSA	#	3	1	109	6	97		44	1	37	21	24	155
	\$	2092	42	205	51255	15000	317652	217511	622	3048	30458	82563	720848
AVE		697	42	205	470	2500	3274	4728	622	42	1449	2948	4450
WALLAWA	#	11	9	7	6	3	1	2			7		31
LLA	\$	21193	61887	10167	2920	8500	27500	1295			7639		130432
AVE		1926	6875	5093	417	2125	3750	431			1091		4498
GRAND	#	184	63	62	1188	73	315	21	399	59	343	181	1629
TOTAL	\$	161769	262547	67549	518186	2731561027445	22887	18732	1981569	48606	91173	201024	586139
AVE		479	4167	1090	436	3742	3261	1346	892	823	238	111	2643

Table D4

FY75 Relocation Payments, by District

FY75 RELOCATION PAYMENTS, BY DISTRICT- NUMBER OF PAYMENTS, TOTAL AMOUNT, AVERAGE PAYMENT													
DISTRICT	ACTUAL MOVING		FIXED MOVING		SEARCHING		REPLACE		INCR		CLOSING		TOTAL
	DWELL	BUS	FARM	DWELL	BUS	FARM	HOUSING	RENTAL	INTERST	COST	PAYMENT	AVERAGE	
ALASKA	1			16				1					11
	\$ 1856			4070				11263			16000	4000	41192
AVE	1856			4070				11263			4000	4000	3745
ALBUQUERQUE	1			1									1
	\$ 2624			400							2502	2502	5416
AVE	2624			400							2502	2502	2608
BALTIMORE	16	12221	3	128	6	15		1	55	5	48	40	17
	\$ 12221	5000	53619	19992	40841	2500	399321	2487	22411	84761	53644	711979	159
AVE	764	5993	2500	419	3332	2723	2500	7260	497	447	2119	3156	4478
BOSTON	1												1
	\$ 3491	10985	2500	314825	1	112	2000	20356	271	479	18022	7839	380768
AVE	3491	10985	2500	314825	1	112	2000	20356	271	479	18022	7839	380768
BUFFALO	1												1
	\$ 368	379	2500	2629			500	3393	271	107	2002	2613	2652
AVE	368	379	2500	2629			500	3393	271	107	2002	2613	2652
CINCINNATI	23	38417	407	93975	44628	80000		61	4	47	72	31	244
	\$ 38417	11877	407	93975	44628	80000	200206	4737	20187	155474	69300	719400	2948
AVE	1679	2469	407	452	3432	2500	3282	1184	301	2159	2275	2275	2948
CLEVELAND	73	30222	18276	36990	64395	7500	161297	500	5598	203018	12612	3804	18286
	\$ 30222	18276	36990	64395	7500	161297	500	5598	203018	12612	3804	18286	76036
AVE	414	4569	2316	460	2500	3632	500	1120	3691	901	61	2015	2816
DALLAS	14	11	116	7	49	5	2	44	7	30	25	22	146
	\$ 5231	80954	5578	50385	30042	167235	9368	530	195501	1676	1917	53764	60960
AVE	654	5782	507	434	4282	3613	1874	245	4443	239	64	2151	2770
DETROIT	2	465	1133	378	392	2500	241	311	29668	42	949	22416	5052
	\$ 465	1133	378	392	2500	2500	241	311	29668	42	949	22416	5052
AVE	233	378	392	392	2500	2500	241	311	29668	42	949	22416	5052
HOUSTON	16	23291	226	4695	12500	62447		15	10	6	2	268545	50
	\$ 23291	226	4695	12500	62447		143347	15	10	6	2	268545	50
AVE	1293	226	361	6250	3469		9556	15	10	6	2	268545	50
MILWAUKEE	1												1
	\$ 510	293	360								216	2176	3575
AVE	510	293	360								216	2176	3575
MINNEAPOLIS	1												1
	\$ 510	293	360								216	2176	3575
AVE	510	293	360								216	2176	3575
NEW YORK	80	145673	631082	628	70055	96640	56585	1000	628	717836	7691	3059	172481
	\$ 145673	631082	628	70055	96640	56585	1000	628	717836	7691	3059	172481	78043
AVE	1021	105180	628	412	3909	5144	500	628	10255	873	153	1675	3393
OMAHA	1												1
	\$ 1												1
AVE	1												1

Table D4 (Cont'd)

PHILADEL #	92	204	17	53	14	66	62	40	106
PHIA AVE	49881	6191	91010	63953	26308	318793	18962	43078	194850
	542	579	446	3762	6577	6015	793	653	3143
									31720
PITTS #	2	3	1	1	1	1	1	1	5
BURGH AVE	1210	7768	2500	1104	2000	2000	2000	2000	14542
	403	7768	2500	1104	2000	2000	2000	2000	2016
PORTLAND #	25	59	15	1	1	58	5	16	21
PORTLAND AVE	2727	23680	43159	2500	500	745429	1893	5560	72672
	1364	401	2877	2500	500	12452	379	348	3461
									3893
ROCK #	2	21	1	18	2	176353	102	11385	25095
ISLAND AVE	778	10568	875	9620	2500	12597	51	2846	3137
	389	10568	438	458	2500	5189			7189
SACRAMEN #	2	2	1	1	1	1	1	1	3
TO AVE	880	440	10000	10000	10000	4000	4000	4000	14490
									4040
SAVANNAH #	7	1	54	1	9	26242	7721	6206	39564
SAVANNAH AVE	3808	410	833	20634	2500	41058	6233	6233	154209
	544	410	833	382	2500	4562	4374	345	2755
									2078
SEATTLE #	1	1	1	1	1	1	1	1	1
SEATTLE AVE	624	4000	4000	4000	4000	4000	4000	4000	4424
									4424
ST LOUIS #	11	16	9	1	10	2	7	4	66
ST LOUIS AVE	2336	1254	7600	25388	500	28872	775	940	6480
	212	418	475	500	2887	388	137	1620	2114
									2881
TULSA #	5	1	103	20	92	33	1	22	26
TULSA AVE	6219	205	48725	60233	384205	168290	142	2191	53478
	1244	205	473	3012	4177	5100	142	100	2057
									3207
VICKSBURG #	1	1	1	1	1	1	1	1	2
VICKSBURG AVE	197	587	204	204	204	204	204	204	784
									782
WALLA #	7	4	3	1	6	1	8	1	23
WALLA AVE	22134	7608	569	2240	25098	333	19472	4000	81496
	3162	1902	569	380	6366	333	2434	4000	3443
									2875
GRAND #	373	44	55	1341	104	421	63	303	430
GRAND AVE	373404	785131	60218	500923	3835131	475678	11109	12467	3389599
	1001	17447	1095	433	3618	3505	1234	785	6903
									730
									2265
									3063
									4245

Table D5

FY76 Relocation Payments, by District

FY76 RELOCATION PAYMENTS, BY DISTRICT NUMBER OF PAYMENTS, TOTAL AMOUNT, AVERAGE PAYMENT													
DISTRICT	ACTUAL MOVING DWELL RUS	FARM	FIXED MOVING BUS	FARM	SEARCHING RUS	REPLACE FARM	INCR HOUSING	CLOSING INTRST	RENTAL COST	DOWN PAYMENT	TOTAL AVERAGE		
ALASKA	3	2	24	1	1	1	1	1	1	1	1	27	162297
AVE	9010	23987	11400	245	111500	6400	3200	6011					
ALRU	1											1	24196
QUERQUE	28396											28396	
AVE	28396												
ARIZONA	13	7	56	4	2	2	36	10	30	5	12	92	490915
MODE	10779	69554	25225	26241	24160	442	273640	3944	9912	16400	34000	490915	
AVE	429	9936	450	6570	5232	221	7602	394	330	3290	3167	5434	
ARIZONA	5	2	16	1	50	1	3	7	3	1	1	44	212435
WORTH	2351	1580	1259	6110	2500	172792	255	1225	19559	444	3168	2632	3119
AVE	470	790	315	382	2500	3456	255	408	2794	141	3168	2632	3119
ARIZONA	10	3	132	6	24	1	52	1	51	39	12	155	546149
MUNTING	9400	13820	100	57400	23029	67021	500	220503	2726	9909	110354	31727	3524
TON	940	4607	100	436	3838	2578	500	4240	2726	194	2410	2644	3524
ARIZONA	38	3	7	88	3	35	1	33	9	10	4	10	149
KANSAS	13411	2277	14933	41029	1118	145336	500	2808	126482	13348	2477	10000	404705
CITY	353	759	2133	466	2706	4152	500	702	3848	1485	83	2500	2743
LOS	1											1	7492
ANGELES	500											7492	
AVE	500												
LOUIS	5	4	5	50	34	1	26	2	17	12	7	71	382457
VILLE	2960	1381	8140	20925	134534	500	148727	1386	1836	41411	20197	382457	
AVE	592	345	1628	419	3567	500	5720	693	104	3451	2685	5787	
MEMPHIS	15											4	74
AVE	15											74	
MOBILE	3	1	1	1	1	1	1	1	1	1	1	6	5787
AVE	1178	931	500	2500	500	2500	4758	2360	74	678	678	5787	
MASH	3	7	3	38	1	5	7	7	11	5	5	51	81432
VILLE	2527	3031	3198	15485	2500	12500	174	16768	1505	11740	12348	81432	
AVE	442	433	1066	404	2500	2500	174	2395	137	2352	2472	1601	
NEW	12	1	19	1	18	1	15	14	4	5	5	53	251470
ORLEANS	13977	336	7090	4888	72382		128521	4592	9742	10102	251470	4748	
AVE	1165	336	373	4888	4021		8564	374	2446	2020	4748		
NCD	4											4	60484
AVE	21164											60484	
	5292											15146	

Table D5 (Cont'd)

PHILADEL #	39	6	2	132	9	1	35	9	43	24	22	182
PHIA \$	36339	9670	5284	58230	48045	8030	154	500	272868	8403	24274	83660
AVE	932	1612	2642	441	5338	8030	154	500	7796	934	565	3429
PITTS #	1											1
PURGH \$	16500											16500
AVE	16500											16500
PORTLAND #	34	2		101	10		46	1	8	56	10	144
AVE	33605	605		36005	36582		617297	367	882	211808	35024	972175
OMAHA #	16	6	3	114	16	4	62	4	18	28	184	184
AVE	41411	25260	6107	49920	59580	31284	559	669	858088	2241	49320	110600
ROCK ISLAND #	2	3	3	10	4	9	5	1	1	4	1	29
AVE	468	3254	4136	4310	14964	35559	500	56360	174	109	12651	1172
SACRA #	3		2	5		2	4	1	4	1	1	8
MENTO \$	6083	1660	2140	5000			500	48995	235	4000		60813
AVE	2024	840	428	2500			500	12249	235	4000		411
ST LOUIS #	16	2	4	7		10	4	1	3			34
AVE	4652	1114	3028	3166		41146	97	18318	324	617		72145
SAVANNAH #	4	1	4	23	1	10	52431	4905	5300	8954	9543	124430
AVE	2432	150	1377	9945	2500	29323	5243	1226	662	2239	3184	7827
TULSA #	2			51	8	73	27	3	15	9	9	103
AVE	3172			24240	29689	254799	167327	3267	2052	21720	29578	539444
VICKS #	7			6	1		6					14
BURG \$	2205			2380	425		38755	874				44444
AVE	315			397	425		6459	220				3149
WALLA #	2			2	1			1	2			5
AVE	9071			610	10000			333	5640			25474
CW-DA #	200	50	37	831	64	285	10	11	378	37	234	187
AVE	216524	173114	44274	355305	2487001034370	3329	5799	3145289	35183	60317	586974	384806
GRAND #	222	50	39	880	67	286	10	12	388	45	249	192
TOTAL \$	254595	173114	49558	376845	2712001040870	3329	6299	3214694	45872	69850	605934	415367
AVE	1147	3462	1271	428	4048	3639	333	525	8285	1019	241	3156
												4696

APPENDIX E:

DOCKET SHEET MASTERFILE ANALYSIS BY STATE,
SUMMARIZED BY PAYMENT TYPES

Table E3 summarizes all Docket Sheet transactions by state for the period FY72 to FY76 for those states in which 10 or more applicants were paid relocation costs. The following data also show all Docket Sheet actions to October 1976 by state (ST). The CODE heading (Tables E4 to E18) identifies the state by number. The numeric code is translated in Table E1. The SUM heading shows the amounts spent by each listed state for that payments type. The MEAN is the average payment value for that state. N indicates the number of payments made in that state.

Tables E4 to E18 are identified by CRITERION VARIABLE, e.g., AMD. The CRITERION VARIABLE code is translated in Table E2.

Table E1
State CODE Headings

<u>STATE</u>	<u>CODE</u>	<u>STATE</u>	<u>CODE</u>
Alabama	01	Nevada	32
Alaska	02	New Hampshire	33
Arizona	04	New Jersey	34
Arkansas	05	New Mexico	35
California	06	New York	36
Colorado	08	North Carolina	37
Connecticut	09	North Dakota	38
Delaware	10	Ohio	39
District of Columbia	11	Oklahoma	40
Florida	12	Oregon	41
Georgia	13	Pennsylvania	42
Hawaii	15	Rhode Island	44
Idaho	16	South Carolina	45
Illinois	17	South Dakota	46
Indiana	18	Tennessee	47
Iowa	19	Texas	48
Kansas	20	Utah	49
Kentucky	21	Vermont	50
Louisiana	22	Virginia	51
Maine	23	Washington	53
Maryland	24	West Virginia	54
Massachusetts	25	Wisconsin	55
Michigan	26	Wyoming	56
Minnesota	27		
Mississippi	28		
Missouri	29		
Montana	30		
Nebraska	31		

Table E2
The Criterion Variable Code

(Criterion Variable) Identifying Abbreviation	<u>Payment Type</u>
AMD	Actual Moving Costs - Dwelling
AMB	Actual Moving Costs - Business
AMF	Actual Moving Costs - Farm
FMD	Fixed Moving Costs - Dwelling
FMB	Fixed Moving Costs - Business
FMF	Fixed Moving Costs - Farm
DLB	Direct Loss - Business
DLF	Direct Loss - Farm
SB	Searching Cost - Business
SF	Searching Cost - Farm
RH	Replacement Housing
IIC	Increased Interest Cost
CC	Closing Cost
SRP	Rental Payment
DP	Down Payment

This is the order in which the following tables are arranged.

Table E3

Summarized Data From All Docket Sheets on the Master File,
by States That Have Made Payments to 10 or More Applicants

STATE	NUMBER OF APPLICABLE PROJECTS	PAYMENT SUM	NUMBER OF APPLICANTS	MEAN
ALABAMA	1	130,181	12	10,848
ALASKA	1	212,927	41	5,193
ARIZONA	0	-	-	-
ARKANSAS	0	-	-	-
CALIFORNIA	0	-	-	-
COLORADO	2	1,255,543	243	5,167
CONNECTICUT	0	-	-	-
DELAWARE	0	-	-	-
DISTRICT OF COLUMBIA	0	-	-	-
FLORIDA	0	-	-	-
GEORGIA	1	75,435	41	1,840
HAWAII	0	-	-	-
IDAHO	1	132,146	36	3,671
ILLINOIS	0	-	-	-
INDIANA	2	790,967	169	4,680
IOWA	1	200,332	49	4,088
KANSAS	4	931,970	203	4,591
KENTUCKY	7	988,801	238	4,155
LOUISIANA	7	643,281	141	4,562
MAINE	0	-	-	-
MARYLAND	0	-	-	-
MASSACHUSETTS	0	-	-	-
MICHIGAN	1	35,692	10	3,569
MINNESOTA	1	243,075	40	6,077
MISSISSIPPI	1	149,249	104	1,435
MISSOURI	7	1,797,215	806	2,230
MONTANA	1	183,053	64	2,860
NEBRASKA	2	1,992,743	276	7,220
NEVADA	0	-	-	-
NEW HAMPSHIRE	0	-	-	-
NEW JERSEY	2	811,776	414	1,961
NEW MEXICO	0	-	-	-
NEW YORK	0	-	-	-
NORTH CAROLINA	2	449,332	157	2,862
NORTH DAKOTA	1	84,326	11	7,666
OHIO	4	851,103	270	3,152
OKLAHOMA	8	2,088,675	424	4,926
OREGON	2	183,435	44	4,169
PENNSYLVANIA	6	3,591,598	1,658	2,166
RHODE ISLAND	0	-	-	-
SOUTH CAROLINA	0	-	-	-

Table E3 (Cont'd)

<u>STATE</u>	<u>NUMBER OF APPLICABLE PROJECTS</u>	<u>PAYMENT SUM</u>	<u>NUMBER OF APPLICANTS</u>	<u>MEAN</u>
SOUTH DAKOTA	0	-	-	-
TENNESSEE	0	-	-	-
TEXAS	4	1,118,830	412	2,716
UTAH	0	-	-	-
VERMONT	0	-	-	-
VIRGINIA	0	-	-	-
WASHINGTON	2	2,077,341	307	6,767
WEST VIRGINIA	4	1,696,884	636	2,668
WISCONSIN	1	652,503	93	7,016
WYOMING	0	-	-	-
TOTAL	76	23,369,045	6,899	3,387

(only 27 states have at least one project with 10 or more applicants)

Table E4

Criterion Variable -- AMD

FILE	NONAME	(CREATION DATE = 10/27/76)	DESCRIPTION OF SUBPOPULATIONS				
CRITERION VARIABLE			AMD				
BROKEN DOWN BY			ST				
VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N
FOR ENTIRE POPULATION							
ST	1.		934250.2300	994.9417	1662.6555	2764423.2739	(939)
ST	2.		1714.1000	428.5250	248.5900	61796.9692	(4)
ST	5.		10870.5100	2717.6275	823.5410	678219.7165	(4)
ST	6.		1130.0000	282.5000	187.5056	35158.3333	(4)
ST	8.		6083.9800	2027.9933	2824.3559	7976986.4064	(3)
ST	13.		252206.9700	2313.8254	3164.6714	10015E+08	(109)
ST	16.		2914.2000	224.1692	310.1066	96166.0856	(13)
ST	17.		3286.5500	657.3100	517.6989	268012.1340	(5)
ST	18.		165.0000	165.0000	0	0	(1)
ST	19.		5630.3000	703.7875	524.6525	275260.2604	(4)
ST	20.		6309.8500	901.4071	362.4307	131350.0344	(7)
ST	21.		15324.6700	612.9868	571.6100	326738.0444	(25)
ST	22.		9935.1200	709.6514	589.7631	347820.5142	(14)
ST	26.		93787.5800	987.2377	692.6908	479820.5139	(95)
ST	27.		35691.6300	3965.7367	3084.2395	9512533.2620	(9)
ST	28.		298.3800	298.3800	0	0	(1)
ST	29.		1602.9500	267.1583	109.4194	11972.6089	(6)
ST	30.		60643.7900	356.7282	421.2990	177492.8651	(170)
ST	31.		5050.9300	841.8217	172.6284	29800.5604	(6)
ST	34.		3046.2300	604.2460	549.0383	301443.0901	(5)
ST	37.		71467.8200	882.3184	2022.7509	4091521.3011	(81)
ST	39.		4173.3500	463.7056	378.4289	143208.4639	(9)
ST	40.		69501.7100	1447.9523	2401.8452	5768860.3763	(48)
ST	41.		11984.4100	921.8777	650.6014	423282.1814	(13)
ST	42.		11313.7600	1616.2514	1516.4469	2299611.3180	(7)
ST	45.		102045.4600	689.4964	636.0535	404564.0452	(148)
ST	47.		533.0000	177.6667	93.5218	8746.3333	(3)
ST	48.		516.0000	516.0000	0	0	(1)
ST	51.		11113.3200	694.5825	538.0190	289464.4356	(16)
ST	53.		1421.6900	284.3380	176.6103	31191.1962	(5)
ST	54.		95074.9200	1267.6656	1525.0257	2325703.3677	(75)
ST	55.		38166.0500	954.1513	1120.7207	1256014.9847	(40)
ST			1246.0000	311.5000	281.8847	79459.0000	(4)
TOTAL CASES =			939				

Table E5

Criterion Variable -- AMB

FILE	NONAME	ICREATION DATE = 10/27/76)	DESCRIPTION OF SUBPOPULATIONS						
CRITERION VARIABLE AMB BROKEN DOWN BY ST									
VARIABLE			CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N
FOR ENTIRE POPULATION									
ST			1.		683748.0100	4327.5191	11132.0019	.12342E+09	(158)
ST			2.		103931.8000	51965.9000	72173.1164	.52089E+10	(2)
ST			3.		23742.5800	23742.5800	0	0	(1)
ST			4.		779.2800	779.2800	0	0	(1)
ST			5.		11277.5600	11277.5600	0	0	(1)
ST			6.		22321.6300	3720.2717	3050.6403	9306406.0263	(6)
ST			7.		150.0000	150.0000	0	0	(1)
ST			8.		26425.5300	3832.2186	4937.1541	.24375E+08	(7)
ST			9.		2549.2000	504.8400	422.7211	178693.1480	(5)
ST			10.		48718.1600	8119.6933	13418.0228	.18004E+09	(6)
ST			11.		1778.5400	889.2700	327.6874	107379.0482	(2)
ST			12.		81867.2400	6822.2700	15849.4853	.25120E+09	(12)
ST			13.		6898.2000	1379.6400	1164.9752	1357167.2230	(5)
ST			14.		30500.0000	30500.0000	0	0	(1)
ST			15.		2858.2400	476.3733	849.6467	721899.5775	(6)
ST			16.		25894.3100	1523.1947	2683.0015	7198496.8235	(17)
ST			17.		14233.8100	2372.3017	3639.4650	.13245E+08	(6)
ST			18.		28538.2200	5707.6440	5874.8305	.34513E+08	(5)
ST			19.		9927.2000	1985.4400	2184.0610	4770122.6430	(5)
ST			20.		753.3700	376.6850	47.6378	2269.3584	(2)
ST			21.		12598.7000	6299.3500	5373.0923	.28870E+08	(2)
ST			22.		37498.9700	3749.8970	5476.8213	.29995E+08	(10)
ST			23.		515.5000	171.8333	241.1081	58133.1217	(3)
ST			24.		196.8000	196.8000	0	0	(1)
ST			25.		50078.6100	2276.3005	4242.3192	.17997E+08	(22)
ST			26.		224.0000	224.0000	0	0	(1)
ST			27.		2979.0300	993.0100	335.5396	112586.8303	(3)
ST			28.		51206.3200	8534.3867	9780.6562	.95661E+08	(6)
ST			29.		79632.9800	5308.8653	12537.6572	.15719E+09	(15)
ST			30.		5272.2300	1318.0575	1687.6765	2848251.8839	(4)
TOTAL CASES =			158						

Table E6

Criterion Variable -- AMF

FILE	NONAME	CREATION DATE	DESCRIPTION OF SUBPOPULATIONS						
CRITERION VARIABLE			AMF						
BROKEN DOWN BY			ST						
VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N		
FOR ENTIRE POPULATION									
ST	1.		207660.1800	1375.2330	5005.7129	.25057E+08	(151)		
ST	6.		81.2500	81.2500	0	0	(1)		
ST	8.		1160.0000	1160.0000	0	0	(1)		
ST	13.		1405.0000	1405.0000	0	0	(1)		
ST	16.		4064.0000	4064.0000	627.1608	393330.7111	(10)		
ST	17.		569.9500	569.9500	0	0	(1)		
ST	18.		4580.0000	2290.0000	2418.3052	5848200.0000	(2)		
ST	19.		9189.9400	835.4400	2202.7690	4852191.0616	(11)		
ST	20.		5838.0000	973.0000	821.2030	674374.4000	(6)		
ST	21.		31506.4000	2625.5667	2689.6700	7234324.5553	(12)		
ST	22.		1191.9000	238.3800	132.4640	17546.7220	(5)		
ST	27.		516.0000	258.0000	110.3087	12168.0000	(2)		
ST	28.		875.0000	437.5000	335.8757	112812.5000	(2)		
ST	29.		3609.0000	902.2500	1082.5421	1171897.4167	(4)		
ST	30.		21826.6400	779.5229	1968.3777	3874510.6887	(28)		
ST	31.		2086.2000	1043.1000	768.0594	589915.2200	(2)		
ST	34.		4033.7700	4033.7700	0	0	(1)		
ST	37.		4784.3800	4784.3800	0	0	(1)		
ST	39.		2020.4700	505.1175	463.0479	214413.3259	(4)		
ST	40.		7100.7600	473.3840	621.7444	386566.0765	(15)		
ST	41.		61846.4200	8835.2600	21923.7506	48065E+09	(7)		
ST	42.		7427.0000	3713.5000	2102.2285	4419364.5000	(2)		
ST	47.		12776.7600	2555.3520	1740.4797	3029269.4669	(5)		
ST	48.		400.0000	400.0000	0	0	(1)		
ST	51.		6880.0800	344.0240	528.1748	278968.6637	(20)		
ST	53.		293.0000	293.0000	0	0	(1)		
ST	54.		9687.7000	9687.7000	0	0	(1)		
ST	55.		937.7600	312.5867	91.2808	8332.1765	(3)		
ST	55.		971.7000	485.8500	124.9458	15611.4450	(2)		

TOTAL CASES = 151

Table E7

Criterion Variable -- FMD

FILE	NUNAME	ICREATION DATE	10/21/76	DESCRIPTION OF SUBPOPULATIONS						
				CITATION VARIABLE	FMD					
				DOWN BY	ST					
				VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE
				FOR ENTIRE POPULATION						
ST				1.			2142072.8900	427.5595	76.9655	5923.6943
ST				2.			1480.0000	370.0000	42.2295	1783.3333
ST				5.			16705.0000	451.4865	74.4038	5535.9234
ST				6.			3832.0000	348.3636	179.5049	32222.0045
ST				8.			4120.0000	457.7778	55.1765	3044.4444
ST				9.			45720.0000	415.6364	66.7637	4457.3895
ST				10.			930.0000	465.0000	49.4975	2450.0000
ST				13.			1210.0000	403.3333	109.1253	11908.3333
ST				16.			7890.0000	375.7143	64.8322	4203.2143
ST				17.			7680.0000	426.6667	82.6047	6823.5294
ST				18.			1500.0000	500.0000	0	0
ST				19.			55445.0000	410.7037	75.5055	5701.0869
ST				20.			12505.0000	463.1481	51.7232	2675.2849
ST				21.			60080.0000	488.4553	39.5058	1560.7090
ST				22.			89744.2000	435.6515	73.3817	5384.8791
ST				24.			26595.0000	391.1029	67.0923	4501.3773
ST				27.			485.0000	485.0000	0	0
ST				28.			9350.0000	467.5000	27.0234	730.2632
ST				29.			39210.0000	400.1020	48.2796	2330.9173
ST				30.			235019.3500	455.4639	69.5780	4841.1009
ST				31.			18150.0000	422.0930	67.1373	4507.4197
ST				32.			97190.0000	422.5652	86.2207	7434.0023
ST				33.			136955.0000	438.9583	54.9301	3017.3198
ST				37.			47834.3900	392.0852	55.1760	3044.3944
ST				38.			3100.0000	442.8571	60.7493	3690.4762
ST				39.			97165.0000	467.1394	70.1938	4927.1640
ST				40.			121200.0000	467.9537	56.3201	3171.9591
ST				41.			20470.0000	465.0000	76.4998	5852.2222
ST				42.			575927.9500	410.4975	74.5047	5550.9473
ST				45.			1480.0000	370.0000	159.2168	25350.0000
ST				46.			500.0000	500.0000	0	0
ST				48.			57085.0000	385.7095	57.7262	3332.3164
ST				51.			380.0000	380.0000	0	0
ST				53.			73770.0000	370.7035	109.2999	11946.4723
ST				54.			240675.0000	438.3880	76.8497	5875.1795
ST				55.			30690.0000	465.0000	53.9302	2908.4615
				TOTAL CASES			5010			

Table E8

Criterion Variable -- FMB

FILE	NONAME	(CREATION DATE = 10/27/76)	DESCRIPTION OF SUBPOPULATIONS					
			VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV
			CRITERION VARIABLE	FMB				VARIANCE
			BROKEN DOWN BY	ST				N
FOR ENTIRE POPULATION								
ST	1.	1136501.2500			3726.2336	2455.4906	6029434.0929	(305)
ST	5.	5000.0000			2500.0000	0	0	(2)
ST	6.	5000.0000			2500.0000	0	0	(2)
ST	8.	3000.0000			3000.0000	0	0	(1)
ST	13.	66709.0500			5559.0875	3441.7299	.11845E+08	(12)
ST	16.	5000.0000			2500.0000	0	0	(2)
ST	18.	35098.1900			8774.5475	2450.9050	6006935.3190	(4)
ST	18.	21853.7500			3642.2917	1843.2977	3397598.9183	(6)
ST	20.	2500.0000			2500.0000	0	0	(1)
ST	21.	22513.0200			3752.1700	2138.0641	4571318.2036	(6)
ST	22.	20000.0000			4000.0000	3354.1020	.11250E+08	(5)
ST	22.	17500.0000			4375.0000	3750.0000	.14062E+08	(4)
ST	27.	2500.0000			2500.0000	0	0	(1)
ST	28.	5425.0000			1808.3333	1198.0018	1435208.3333	(3)
ST	29.	42859.9200			3296.9169	2256.5235	504898.1582	(13)
ST	30.	35083.2700			4385.4088	1757.2529	3087937.7638	(8)
ST	31.	106080.4900			3788.5889	2621.1073	6870203.4779	(28)
ST	34.	25500.0000			5100.0000	4546.9770	.20675E+08	(5)
ST	37.	5000.0000			2500.0000	0	0	(2)
ST	39.	46589.4600			5772.6307	3399.2137	.11554E+08	(15)
ST	40.	118193.0000			3030.5897	1723.7133	2971187.4457	(39)
ST	41.	5000.0000			2500.0000	0	0	(2)
ST	42.	205227.0000			3731.4000	2581.4792	6664034.9780	(55)
ST	45.	5000.0000			2500.0000	0	0	(2)
ST	49.	22388.9900			2798.6237	844.6353	713409.1525	(8)
ST	53.	102243.9000			3651.5679	2382.1056	5674426.9998	(28)
ST	54.	140329.5400			3189.3077	1480.9280	2193147.7853	(44)
ST	55.	24906.6700			3558.0957	1948.1173	3795161.1575	(7)
TOTAL CASES =			305					

Criterion Variable -- FMF

TOTAL CASES ■ 1307

Table E10

Criterion Variable -- DLB

FILE	NONAME	(CREATION DATE = 10/27/76)	DESCRIPTION OF SUBPOPULATIONS							
			CRITERION VARIABLE	DLB						
			SHOWN DOWN BY	ST						
			VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N
			FOR ENTIRE POPULATION							
ST			H.			552784.3900	10236.4220	28010.4420	.78458E+09	(54)
ST			16.			372926.2600	53275.1800	64123.0736	.41117E+10	(7)
ST			18.			1000.0000	1000.0000	0	0	(1)
ST			21.			6200.0000	2066.6667	1692.1387	2863333.3333	(3)
ST			22.			172.3000	172.3000	0	0	(1)
ST			29.			7500.0000	2500.0000	0	0	(3)
ST			30.			4244.4700	1061.1175	1007.8013	1015663.3952	(4)
ST			39.			17900.0000	8950.0000	9121.6775	.83205E+08	(2)
ST			41.			50532.7200	12633.1800	16656.2291	.27742E+09	(4)
ST			42.			455.1000	455.1000	0	0	(1)
ST			53.			62188.7400	2961.3686	5061.4368	.25618E+08	(21)
ST			54.			29468.8000	4911.6667	4516.6528	.20400E+08	(6)
ST						200.0000	200.0000	0	0	(1)
			TOTAL CASES =						54	

Table E11

Criterion Variable -- DLF

FILE	NONAME	(CREATION DATE = 10/27/76)	DESCRIPTION OF SUBPOPULATIONS									
			CRITERION VARIABLE	DLF								
			SHOWN DOWN BY	ST								
			VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N		
			FOR ENTIRE POPULATION									
ST			1.			52544.3700	3090.8453	3197.3987	.10223E+08	(17)		
ST			13.			10000.0000	10000.0000	0	0	(1)		
ST			21.			212.1900	212.1900	0	0	(1)		
ST			30.			2500.0000	2500.0000	0	0	(1)		
ST			31.			224.0000	224.0000	0	0	(1)		
ST			39.			4756.8600	2378.4300	1595.8410	2546708.5298	(2)		
ST			40.			300.0000	300.0000	0	0	(1)		
ST			42.			11250.0000	11250.0000	0	0	(1)		
ST			54.			23131.3200	2891.4150	1320.7595	1744405.6178	(8)		
ST						170.0000	170.0000	0	0	(1)		
			TOTAL CASES = 17									

Table E12

Criterion Variable -- SB

FILE	NUNAME	(CREATION DATE * 10/27/76)	DESCRIPTION OF SUBPOPULATIONS						
CRITERION VARIABLE			SM						
BROKEN DOWN BY			ST						
VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N		
FOR ENTIRE POPULATION									
ST	2*		40607.2400	863.9847	2539.4356	6448723.0344	(47)		
ST	5*		245.0000	245.0000	0	0	(1)		
ST	8*		60.0000	60.0000	0	0	(1)		
ST	16*		734.7000	367.3500	187.5954	35192.0450	(2)		
ST	18*		350.0000	350.0000	0	0	(1)		
ST	19*		1653.1400	413.2950	192.7596	37156.2681	(4)		
ST	20*		500.0000	500.0000	0	0	(1)		
ST	21*		7755.0200	3877.5100	5428.1901	.29485E+08	(2)		
ST	28*		174.6000	174.6000	0	0	(1)		
ST	29*		1439.4000	287.8800	210.0045	44101.8720	(5)		
ST	30*		1006.2100	335.4033	203.8653	41561.0472	(3)		
ST	31*		1559.6000	519.8667	34.4101	1184.0533	(3)		
ST	39*		17897.4500	2982.9083	6440.3177	.41477E+08	(6)		
ST	41*		211.4800	211.4800	0	0	(1)		
ST	42*		4679.0800	519.8978	759.2588	576473.8560	(9)		
ST	47*		241.2000	241.2000	0	0	(1)		
ST	48*		585.0000	292.5000	53.0330	2812.5000	(2)		
ST	53*		1445.3600	481.7867	31.5464	995.1765	(3)		
ST	55*		70.0000	70.0000	0	0	(1)		

TOTAL CASES = 47

Criterion Variable -- SF

148

Table E14

Criterion Variable -- RH

FILE	NUNAME	(CREATION DATE = 10/27/76.)	DESCRIPTION OF SUBPOPULATIONS						
CRITERION VARIABLE			BROKEN DOWN BY						
			ST						
VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N		
FOR ENTIRE POPULATION									
ST	1.		9643998.4600	5949.4132	4476.8765	.20042E+08	(1621)		
ST	2.		1084.7600	1084.7600	0	0	(1)		
ST	5.		126963.5000	12696.3500	4079.5343	.16642E+08	(10)		
ST	6.		24059.4200	6014.4550	4105.6532	.16456E+08	(6)		
ST	8.		74512.5300	9314.0662	5444.1999	.29639E+08	(8)		
ST	10.		238298.3200	7008.7741	4797.0805	.23011E+08	(36)		
ST	13.		13439.5000	1343.9500	0	0	(1)		
ST	16.		43393.4400	5424.1800	2849.8272	.8121515.2078	(4)		
ST	17.		24500.0000	8166.6667	2254.6249	5083333.3333	(3)		
ST	18.		15630.0000	5210.0000	3956.2944	.15652E+08	(3)		
ST	19.		380061.6500	4692.1191	2047.1544	4190842.7100	(81)		
ST	20.		14402.8100	2628.9729	1828.8239	3344596.8968	(7)		
ST	21.		277825.5800	5051.3742	3298.2321	.10878E+08	(55)		
ST	22.		421390.7800	5138.9120	2097.4840	4399439.3250	(82)		
ST	27.		479154.2100	9214.5810	4538.5597	.20598E+08	(52)		
ST	28.		64326.0000	7147.3333	4625.8387	.21398E+08	(9)		
ST	29.		66907.1600	3717.0644	3270.2269	.10694E+08	(18)		
ST	30.		622220.1700	3065.1240	2154.0786	4640054.4395	(203)		
ST	31.		46852.9900	3904.4158	2301.5193	5296991.0181	(12)		
ST	34.		1439767.4200	13331.1794	3003.2758	9019665.8179	(108)		
ST	37.		252207.8100	5366.1236	2299.0996	5285859.0350	(47)		
ST	38.		170933.7700	5027.4634	3469.6181	.12038E+08	(34)		
ST	39.		14950.0000	7475.0000	1308.1475	1711250.0000	(2)		
ST	40.		218651.7400	3036.8297	2513.4681	6320035.5813	(72)		
ST	41.		638883.7400	4844.0283	2852.0420	8134143.4110	(132)		
ST	42.		137916.2000	9851.1571	3795.7138	.14407E+08	(14)		
ST	45.		1412309.9400	5835.9915	3775.1525	.14251E+08	(242)		
ST	48.		934.4700	934.4700	0	0	(1)		
ST	51.		79852.3300	2575.9816	1333.0528	1777029.6615	(31)		
ST	53.		19420.2500	9710.1250	1711.3752	2928805.0313	(2)		
ST	54.		1280501.0600	13066.3373	3000.7104	904263.1703	(98)		
ST	55.		659057.6300	3214.9153	2777.2657	7713204.5781	(205)		
ST			379585.6800	9037.7543	3979.0268	.15832E+08	(42)		
TOTAL CASES =			1621						

Table E15

Criterion Variable -- IIC

FILE	NONAME	(CHARTION DATE = 10/27/76)	DESCRIPTION OF SUBPOPULATIONS				
CRITERION VARIABLE IIC			-----				
MURKIN DOWN NY ST			-----				
VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N
FOR ENTIRE POPULATION							
ST	6.		201248.8200	910.6281	1086.2974	1180042.0993	(221)
ST	8.		2360.0600	2360.0600	0	0	(1)
ST	13.		6032.9800	2010.9933	1338.2771	1790985.6508	(3)
ST	14.		226.1800	226.1800	0	0	(1)
ST	18.		1579.4900	263.2483	225.1633	50698.5304	(6)
ST	20.		7056.1800	415.0694	440.9865	194469.1212	(17)
ST	21.		2836.9900	472.8317	669.1095	447707.5818	(6)
ST	22.		1303.9800	434.6600	568.5917	323296.5036	(3)
ST	28.		42.5000	42.5000	0	0	(1)
ST	29.		78035.9700	1345.4474	1224.7380	1499983.1530	(58)
ST	30.		800.0000	800.0000	0	0	(1)
ST	31.		109.4500	109.4500	0	0	(1)
ST	34.		14971.2300	1069.3736	724.6659	525140.7165	(14)
ST	37.		12953.5200	1439.2800	1158.2614	1341569.3919	(9)
ST	39.		26910.1600	1281.4362	1702.7524	2899365.8673	(21)
ST	40.		6979.1400	997.0200	1128.6027	1273743.9642	(7)
ST	41.		744.7500	744.7500	0	0	(1)
ST	42.		30927.9300	572.7394	779.8271	608130.2995	(54)
ST	45.		49.6000	49.6000	0	0	(1)
ST	48.		2358.6900	1179.3450	1283.2645	1646767.6680	(2)
ST	53.		2562.9800	512.5960	511.0855	261208.4160	(5)
ST	54.		2232.4500	279.0562	487.0865	237253.2401	(8)
ST	55.		174.5900	174.5900	0	0	(1)
TOTAL CASES =			221				

Criterion Variable -- CC

151

Table E17

Criterion Variable -- SRP

FILE	NONAME	ICREATION DATE = 10/27/76	DESCRIPTION OF SUBPOPULATIONS				
CRITERION VARIABLE			SMR				
BROKEN DOWN BY			ST				
VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N
FOR ENTIRE POPULATION							
ST			1654367.4700	2404.6039	1306.5675	1707118.6426	(688)
ST	2.		26400.0000	3771.4286	604.7432	365714.2857	(7)
ST	5.		480.0000	480.0000	0	0	(1)
ST	6.		4000.0000	4000.0000	0	0	(1)
ST	8.		167450.2000	2067.2864	1290.6870	1665873.0449	(81)
ST	13.		15884.0000	2269.1429	838.0126	702265.1429	(7)
ST	16.		12088.0000	2014.6667	1247.2040	1555517.8667	(6)
ST	18.		17160.0000	1560.0000	806.8249	650966.4000	(11)
ST	19.		6000.0000	2000.0000	908.6253	825600.0000	(3)
ST	20.		10005.0000	2001.0000	1854.4554	3439005.0000	(5)
ST	21.		102784.3200	2336.0073	1541.2149	2375343.4397	(44)
ST	22.		25606.2400	1469.7108	1139.6306	1292757.7915	(13)
ST	27.		2400.0000	339.4113	339.4113	115200.0000	(2)
ST	28.		34176.0000	2136.0000	418.4543	175104.0000	(16)
ST	29.		58762.3900	1740.6785	1240.1577	1638803.7030	(33)
ST	30.		2640.0000	1320.0000	1527.3506	2332800.0000	(2)
ST	31.		79415.3400	1654.4862	1175.0687	1380786.5256	(48)
ST	34.		81884.0000	3560.3478	819.5839	671717.6917	(23)
ST	37.		33914.4000	2608.8000	1208.4299	1460302.7200	(13)
ST	39.		56616.0000	1572.6667	1177.9647	1387600.9143	(36)
ST	40.		63128.0000	2176.8276	973.8955	948472.4335	(29)
ST	41.		12280.0000	2046.6667	1434.7497	2058506.6667	(6)
ST	42.		300592.8300	2683.8646	1228.5491	1509332.8627	(112)
ST	48.		22954.0000	1765.6923	1170.5007	1370071.8974	(13)
ST	51.		2176.0000	2176.0000	0	0	(1)
ST	53.		302264.0000	3686.1463	722.7113	522311.5833	(82)
ST	54.		190505.5900	2267.9237	1135.6666	1289738.5384	(84)
ST	55.		22797.1600	2533.0178	1397.6157	1953329.6844	(9)
TOTAL CASES =			688				

Table E18

Criterion Variable -- DP

FILE	NONAME	CREATION DATE	10/27/76	DESCRIPTION OF SUBPOPULATIONS							
				CRITERION VARIABLE	DP	BROKEN DOWN BY	ST				
				VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N
FOR ENTIRE POPULATION											
ST				1.			2226026.9200	2800.0339	1040.0815	1081769.5389	7951
ST				2.			8088.0500	2696.0167	967.2949	935659.4758	31
ST				6.			9000.0000	4000.0000	0	0	21
ST				8.			6500.0000	3250.0000	1060.6602	1125000.0000	21
ST				9.			108433.2700	3285.8567	983.5157	967303.0765	331
ST				10.			1240.0000	1240.0000	0	0	11
ST				13.			3555.3800	3555.3800	0	0	11
ST				16.			1341.0000	670.9000	241.6891	58413.6200	21
ST				18.			10510.0000	2102.0000	1479.1746	2187957.5000	51
ST				19.			23922.5100	2174.7736	587.7049	345397.0002	1111
ST				20.			40240.8500	2515.0531	687.7991	445955.6318	161
ST				21.			103426.2700	2585.6567	1027.8167	1056407.2120	401
ST				22.			66957.1500	2391.3268	869.0603	755265.8241	281
ST				27.			26101.8900	2175.1575	951.5097	905370.6479	121
ST				28.			17410.9800	2544.4257	1167.6182	1363332.2916	71
ST				29.			15762.7300	2251.8186	938.6480	881060.0815	71
ST				30.			179446.7800	2458.1751	977.0454	954617.7260	731
ST				31.			34007.8200	2429.1300	1339.2113	1793486.9732	141
ST				34.			192419.0700	3563.3161	869.1769	755468.4090	541
ST				37.			131374.0400	3649.2400	666.4538	444160.6794	361
ST				38.			21356.0100	1941.4555	1455.7888	2119321.1269	111
ST				39.			8000.0000	4000.0000	0	0	21
ST				40.			166127.7400	2595.7459	1021.1530	1042753.4346	641
ST				41.			161363.6600	3044.5974	879.8837	774195.3275	531
ST				42.			35499.7300	2958.3108	1288.6711	1660673.2207	121
ST				48.			477802.5800	3043.3285	1030.0042	1060908.7468	1571
ST				53.			50843.7200	2311.0782	498.2189	248222.0245	221
ST				54.			85205.5700	3550.2321	894.1955	799585.5449	241
ST				55.			209813.8200	2305.6464	724.2250	524501.7817	911
ST							30875.4600	2572.9550	988.1432	976427.0181	121
				TOTAL CASES	=		795				

APPENDIX F:

DOCKET SHEET MASTERFILE ANALYSIS BY DISTRICT, SUMMARIZED BY PAYMENT TYPES

This appendix is similar to Appendix E, except the data are arranged by District.

The following tables show by District (DIS) all Docket Sheet actions to October 1976. The CODE heading identifies the District by its District Code which is translated in Table F1. The SUM heading shows the amounts spent by each listed District for that payment type. The MEAN is the average payment value for that District. N indicates the number of payments made by that District.

Table F1 is a summary of all Docket Sheet total payments for FY72 to FY76 by Districts that made 10 or more payments during that interval.

Tables F3 through F17 summarize each individual average payment by District for FY72 to FY76 inclusive. They also provide the total amount paid for each payment type (SUM), the average value of the payment type by District (MEAN), the standard deviation of the average payment (STD DEV), the variance of the MEAN and the total number of payments made by each District (N). The type of payment descriptor is found in the heading under criterion variable, e.g., AMD.

Table F1

Summarized Data From all Docket Sheets
on the Masterfile, by Districts That
Have Made Payments to 10 or More Applicants

<u>DISTRICT NAME</u>	<u>NUMBER OF APPLICABLE PROJECTS</u>	<u>PAYMENT SUM</u>	<u>NUMBER OF APPLICANTS</u>	<u>AVERAGE PAYMENT</u>
OYA PORTLAND	3	2,033,271	296	6,869
OYB SEATTLE	1	183,053	64	2,860
OYC WALLA WALLA	2	359,652	91	3,952
OYD HUNTINGTON	7	2,094,822	824	2,542
OXJ MEMPHIS	0	-	-	-
OYE LOUISVILLE	8	1,821,908	432	4,217
OXK NEW ORLEANS	8	904,423	234	3,865
OXL ST. LOUIS	2	539,060	236	2,284
OYF NASHVILLE	2	168,216	115	1,463
OXV VICKSBURG	0	-	-	-
PXR KANSAS CITY	8	1,981,589	739	2,681
OXT OMAHA	4	3,226,662	509	6,339
OYJ PITTSBURG	0	-	-	-
OXU BALTIMORE	4	2,464,768	1,087	2,267
OXZ NORFOLK	0	-	-	-
OYM MOBILE	1	130,181	12	10,848
OXO PHILADELPHIA	5	2,331,097	1,031	2,261
OYN SAVANNAH	3	524,965	198	2,651
OX6 ROCK ISLAND	3	1,095,910	182	6,021
OYQ LOS ANGELES	0	-	-	-
OYR SACRAMENTO	0	-	-	-
OYT ALBUQUERQUE	1	105,951	21	5,045
OYU FORT WORTH	3	857,688	319	2,689
OYV GALVESTON	0	-	-	-
OYZ LITTLE ROCK	0	-	-	-
OY1 TULSA	9	2,297,210	458	5,016
O7Y NED	0	-	-	-
O7O NCD	1	35,692	10	3,569
ASK ALASKA	1	212,927	41	5,193
TOTAL	76	23,369,045	6,899	3,387

(20 Districts had at least one project with 10 or more applicants; only projects with 10 or more applicants are included in District totals)

Table F2
Definitions of Criterion Variables for
Subsequent Data

AMD	Actual Moving Costs - Dwelling
AMB	Actual Moving Costs - Business
AMF	Actual Moving Costs - Farm
FMD	Fixed Moving Costs - Dwelling
FMB	Fixed Moving Costs - Business
FMF	Fixed Moving Costs - Farm
DLB	Direct Loss - Business
DLF	Direct Loss - Farm
SB	Searching Cost - Business
SF	Searching Cost - Farm
RH	Replacement Housing
IIC	Increased Interest Cost
CC	Closing Cost
SRP	Rental Payment
DP	Down Payment

This is the order in which the following tables are arranged.

Table F3

Criterion Variable -- AMD

FILE	NONAME	CHUFATION DATE	10/27/76	DESCRIPTION OF SUBPOPULATIONS						
CRITERION VARIABLE AND BROKEN DOWN BY DIS										
VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N			
FOR ENTIRE POPULATION										
OYA	OIS		934250.2300	994.9417	1662.6555	2764423.2739	(939)			
OYB	OIS		71317.2100	1064.4360	972.4502	945659.4249	(67)			
OYC	OIS		5050.9300	841.8217	172.6284	29800.5604	(6)			
OYD	OIS		38358.0200	1917.9010	2471.3956	6107795.9753	(20)			
OYE	OIS		77472.8200	1032.9709	1152.0700	1327265.2958	(75)			
OYF	OIS		18267.7600	730.7104	494.4326	163565.7575	(25)			
OYG	OIS		95516.0800	974.6539	691.9599	478808.4650	(98)			
OYH	OIS		8459.9700	256.3627	213.3588	45521.9615	(33)			
OYI	OIS		3986.8200	666.1367	769.0773	591479.8511	(6)			
OYJ	OIS		2403.9500	300.4937	138.2501	19113.0778	(8)			
OYK	OIS		65485.0700	404.2288	459.5889	211222.0027	(162)			
OYL	OIS		223433.2000	2031.2109	1917.7636	3677817.4129	(110)			
OYM	OIS		54529.3900	727.0585	628.0921	394499.6388	(75)			
OYN	OIS		1421.6900	284.3380	176.6103	31191.1962	(5)			
OYO	OIS		1714.1000	428.5250	248.5900	61796.9692	(4)			
OYP	OIS		122156.3900	778.0662	1522.8082	2318944.7687	(157)			
OYQ	OIS		7620.5500	304.8220	334.0046	111559.0833	(25)			
OYR	OIS		7555.8500	686.8955	437.2993	191230.7047	(11)			
OYS	OIS		6083.9800	2027.9933	2824.3559	7976986.4064	(3)			
OYT	OIS		31820.0000	7955.0000	13667.6027	18680E+09	(4)			
OYU	OIS		9384.8200	721.9092	535.4374	286693.2238	(13)			
OYV	OIS		14172.8300	1012.3450	710.8465	505302.6863	(14)			
OYW	OIS		57158.2900	4082.7350	4409.4189	19442E+08	(14)			
OYZ	OIS		10870.5100	2717.6275	823.5410	678219.7165	(4)			
TOTAL CASES =							939			

Table F4

Criterion Variable -- AMB

FILE	NONAME	(CREATION DATE = 10/27/76)	DESCRIPTION OF SUBPOPULATIONS						
CRITERION VARIABLE			AMB						
BROKEN DOWN BY			DIS						
VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD. DEV	VARIANCE	N		
FOR ENTIRE POPULATION									
OYA			683748.0100	4327.5191	11132.0019	.12392E+09	(158)		
OYB			802.5800	267.5267	83.1340	.6911.2601	(3)		
OYC			14233.8100	2372.3017	3639.4650	.13245E+08	(6)		
OYD			77426.0700	7038.7336	7868.9495	.61920E+08	(11)		
OYE			46496.9900	2735.1171	3818.2029	.14574E+08	(17)		
OYF			92336.9500	4197.1341	12073.0737	.14575E+09	(22)		
OYK			6898.2000	1379.6400	1164.9752	.13571E+08	(5)		
OYL			2633.0000	658.2500	574.4691	.330014.7500	(4)		
OYM			3735.1900	466.8948	727.3878	.529093.0521	(8)		
OYN			25039.8500	1669.3233	2825.7007	.794584.5733	(15)		
OYJ			63458.5500	4881.4269	4368.2620	.19081E+08	(13)		
OYU			16500.0000	16500.0000	0	0	(1)		
OYV			88458.7100	6842.9777	13379.1363	.17900E+09	(13)		
OYW			103931.8000	51965.9000	72173.1164	.52084E+10	(2)		
OYX			16608.6000	1107.2400	1507.5683	.22727E+09	(15)		
OYV			903.3700	301.1233	135.1421	.18263.3756	(3)		
OYK			84490.3900	7880.9445	12619.7110	.15925E+09	(11)		
OYU			11277.5600	11277.5600	0	0	(1)		
OYU			2979.0300	993.0100	335.5395	.112586.8303	(3)		
OYU			779.2800	779.2800	0	0	(1)		
OYI			515.5000	171.8333	241.1081	.58133.1217	(3)		
2SK			23742.5800	23742.5800	0	0	(1)		
TOTAL CASES =			158						

Criterion Variable -- AMF

159

Table F6

Criterion Variable -- FMD

FILE	NONAME	ICREATION DATE = 10/27/16)	DESCRIPTION OF SUBPOPULATIONS						
CRITERION VARIABLE FMD									
BROKEN DOWN BY DIS									
VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STU DEV	VARIANCE	N		
FOR ENTIRE POPULATION									
OYA DIS			2142072.8900	427.5595	76.9655	5923.6943	(5010)		
OYB DIS			84440.0000	380.3604	110.5042	12211.1818	(222)		
OYC DIS			18150.0000	422.0930	67.1373	4507.4197	(43)		
OYD DIS			17480.0000	426.3415	72.2411	5218.7405	(41)		
OYE DIS			301535.0000	442.1334	81.1795	6590.1187	(682)		
OYF DIS			731.0000	121.8333	183.1012	33526.0667	(6)		
OYG DIS			156099.2000	436.0313	68.4117	4680.1664	(358)		
OYH DIS			29585.0000	389.2763	64.4707	4156.4693	(76)		
OYL DIS			68416.2000	450.1066	70.9565	5034.8259	(152)		
OYM DIS			43010.0000	401.9626	51.5777	2660.2627	(107)		
OYN DIS			3770.0000	418.8889	49.7354	2473.6111	(9)		
OYO DIS			215674.1500	465.8189	57.9747	3361.0607	(463)		
OYP DIS			141365.0000	423.2445	79.7415	6358.7098	(334)		
OYQ DIS			2255.0000	375.8333	51.4215	2644.1667	(6)		
OYR DIS			382112.9500	404.3523	76.8784	5910.2865	(945)		
OYS DIS			380.0000	380.0000	0	0	(1)		
OYT DIS			1980.0000	396.0000	68.6841	4717.5000	(5)		
OYU DIS			349305.0000	430.7090	63.1441	3987.1794	(811)		
OYV DIS			57204.3900	389.1455	60.5225	3662.9784	(147)		
OYW DIS			52545.0000	465.0000	49.3439	2434.8214	(113)		
OYX DIS			1500.0000	500.0000	0	0	(3)		
OYY DIS			2620.0000	436.6667	57.1548	3266.6667	(6)		
OYZ DIS			5645.0000	376.3333	76.0044	5776.6667	(15)		
OY1 DIS			51615.0000	388.0927	52.3888	2744.5916	(133)		
OY2 DIS			1090.0000	272.5000	115.8663	13425.0000	(4)		
OY3 DIS			1320.0000	440.0000	60.0000	3600.0000	(3)		
OY4 DIS			134610.0000	470.6643	54.4936	2959.5571	(286)		
OY5 DIS			930.0000	465.0000	49.4975	2450.0000	(2)		
2SK DIS			16705.0000	451.4865	74.4038	5535.9234	(37)		
TOTAL CASES =			5010						

Criterion Variable -- FMB

161

Table F8

Criterion Variable -- FMF

FILE	NUNAME	(CMFATION DATE = 10/27/76)	DESCRIPTION OF SUBPOPULATIONS						
CRITERION VARIABLE FMF			BROKEN DOWN BY OIS						
VARIABLE			CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N
FOR ENTIRE POPULATION					4518048.1100	3456.8080	2195.3912	4819742.4811	(1307)
OIS	OYA				17500.0000	2500.0000	0	0	(7)
OIS	OYB				5000.0000	2500.0000	0	0	(2)
OIS	OYC				52065.8700	3718.9907	2690.1819	7237078.8843	(14)
OIS	OYD				215120.9000	2689.0112	926.9155	859172.3984	(80)
OIS	OYE				525737.4300	3391.8570	2168.8321	4703832.7933	(155)
OIS	OYF				241318.0400	3447.4006	2113.4156	4466525.2941	(70)
OIS	OYH				176217.2900	2986.7337	1552.3306	2409730.3149	(59)
OIS	OYI				20000.0000	2500.0000	0	0	(8)
OIS	OYJ				2500.0000	2500.0000	0	0	(1)
OIS	OYK				584978.2100	3569.5649	2249.4158	5059871.6540	(165)
OIS	OYL				247959.4300	3766.4984	3199.4805	10236E+08	(43)
OIS	OYM				2500.0000	2500.0000	0	0	(1)
OIS	OYU				151594.9300	3158.2277	2148.9172	4617845.1771	(48)
OIS	OYN				7500.0000	2500.0000	0	0	(3)
OIS	OYO				89123.0700	5570.1919	2941.6105	8653072.3502	(16)
OIS	OYP				145778.3800	3737.9072	2294.9229	5266671.1188	(39)
OIS	OYQ				342643.6100	3724.3871	2372.8779	5630549.4787	(92)
OIS	OYR				15562.5000	3112.5000	4009.3305	16074E+08	(5)
OIS	OYS				617011.3000	2952.2072	1367.3183	1869559.2963	(209)
OIS	OYT				1053936.7500	3634.2647	2443.9787	5973031.7534	(290)
TOTAL CASES =					1307				

Table F9

Criterion Variable -- DLB

[illegible]

Table F10

Criterion Variable -- DLF

FILE	NONAME	CMFATION DATE = 10/27/76	DESCRIPTION OF SUBPOPULATIONS									
			CRITERION VARIABLE		BROKEN DOWN BY		DIF		DIS			
			VARIABLE	CODE	VALUE	LABEL	SUM	MEAN	STD DEV	VARIANCE	N	
			FOR ENTIRE POPULATION									
			DIS				52544.3700	3090.8453	3197.3987	.10223E+08	(17)	
			DIS	OYB			224.0000	224.0000	0	0	(1)	
			DIS	OYD			170.0000	170.0000	0	0	(1)	
			DIS	OYE			2800.0000	1400.0000	1555.6349	2420000.0000	(2)	
			DIS	OYU			20631.3200	2947.3314	1416.3184	2005957.8489	(7)	
			DIS	OYM			10000.0000	10000.0000	0	0	(1)	
			DIS	OYO			7256.8600	2618.9533	1130.6108	1278280.6865	(3)	
			DIS	OYN			212.1900	212.1900	0	0	(1)	
			DIS	OYI			11250.0000	11250.0000	0	0	(1)	
			TOTAL CASES =								17	

Table F11

Criterion Variable -- SB

FILE NONAME (CMFATION DATE = 10/27/76)

CRITERION VARIABLE SB
BROKEN DOWN BY DIS

DESCRIPTION OF SUBPOPULATIONS

VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N
FOR ENTIRE POPULATION							
DIS	OYA		40607.2800	863.9847	2539.4356	6448733.0344	(47)
DIS	OYB		211.4800	211.4800	0	0	(1)
DIS	OYC		1006.2100	335.4033	203.8653	41561.0472	(3)
DIS	OYD		1795.3600	448.8400	70.7487	5005.3824	(4)
DIS	OYE		764.8000	352.4000	208.7379	43571.5200	(2)
DIS	OYF		26600.8500	2660.0450	5271.0170	27783E+08	(10)
DIS	OXR		415.4000	207.9000	47.0933	2217.7800	(2)
DIS	OXT		1939.4000	323.2333	206.8348	42780.6467	(6)
DIS	OXT		2059.6000	514.9000	29.8000	888.0400	(4)
DIS	OXU		4024.4800	574.9257	861.8542	742792.6573	(7)
DIS	OXO		654.6000	327.3000	244.2347	59650.5800	(2)
DIS	OXK		70.0000	70.0000	0	0	(1)
DIS	OYT		234.7000	234.7000	0	0	(1)
DIS	OYU		585.0000	292.5000	53.0330	2812.5000	(2)
DIS	OYZ		60.0000	60.0000	0	0	(1)
DIS	25K		245.0000	245.0000	0	0	(1)

TOTAL CASES = 47

Table F12

Criterion Variable -- SF

FILE	NAME	(CREATION DATE = 10/27/76)	DESCRIPTION OF SUBPOPULATIONS						
CRITERION VARIABLE			SP						
BROKEN DOWN BY			DIS						
VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N		
FOR ENTIRE POPULATION									
DIS	OYA		43674.4500	715.9811	861.3455	741916.1205	(61)		
DIS	OYC		3469.0000	495.5714	173.6621	30158.5164	(7)		
DIS	OYD		500.0000	500.0000	0	0	(1)		
DIS	OYD		1100.0000	1100.0000	0	0	(1)		
DIS	OYE		3031.5000	275.5909	214.6728	46084.4208	(11)		
DIS	OYL		97.4000	97.4000	0	0	(1)		
DIS	OYL		311.3000	311.3000	0	0	(1)		
DIS	OXR		15143.6200	1041.6471	1262.0066	1592660.5938	(14)		
DIS	OXT		1296.7600	649.3400	29.0904	846.2494	(2)		
DIS	OXL		10771.4800	2692.8700	385.7400	148795.3476	(4)		
DIS	OXL		1353.3800	451.1267	84.6511	7165.8081	(3)		
DIS	OXL		601.9200	300.9600	281.4851	79233.8432	(2)		
DIS	OYR		500.0000	500.0000	0	0	(1)		
DIS	OYU		5327.0300	443.9192	100.8136	10163.3816	(12)		
DIS	OYI		169.0600	169.0600	0	0	(1)		

TOTAL CASES = 61

Table F13

Criterion Variable -- RH

FILE	NUNAME	(CREATION DATE = 10/27/76)	DESCRIPTION OF SUBPOPULATIONS						
			CHITCHEN VARIABLE	HH					
			BROKEN DOWN BY	DIS					
VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N		
FOR ENTIRE POPULATION									
OYA			9643398.8600	5449.4132	4476.8765	.20042E+08	1621		
OYB			1407126.2600	12409.4152	2927.9730	8573026.1412	109		
OYC			46452.9400	3904.4158	2301.5193	5296991.0181	12		
OYD			35791.0000	5465.1667	3361.2498	.11298E+08	6		
OYE			716826.5700	2833.3066	1806.0594	3261850.6162	253		
OYF			649572.7000	4389.0047	2373.1029	5631617.3715	148		
OYG			471108.2100	9422.1642	4505.1115	.20296E+08	50		
OYH			197994.5300	3093.6645	2036.5699	4147617.0911	64		
OYI			51687.9300	3040.4665	1985.4367	3941959.9964	171		
OYJ			46807.4300	5950.9287	3947.6187	.15583E+08	187		
OYK			637447.1300	3408.4082	2391.2969	5718301.0686	139		
OYL			1652640.3000	11889.4986	4361.9691	.19026E+08	1		
OYM			897.2500	897.2500	0	0	1		
OYN			1133730.5900	6229.2890	3652.4000	.13340E+08	182		
OYO			19420.2500	9710.1250	1711.3752	2928805.0313	1		
OYP			1084.7600	1084.7600	0	0	1		
OYQ			804301.7400	5828.2735	3541.3888	.12541E+08	138		
OYR			215261.6800	5006.0856	3352.6992	.11240E+08	43		
OYS			462314.4900	7970.9395	4381.0890	.19193E+08	58		
OYT			5517.2400	2758.6400	2828.3140	7999360.0128	1		
OYU			68995.2500	11499.2083	4120.1826	.16975E+08	6		
OYV			50005.4400	8334.4240	4542.2429	.20631E+08	1		
OYW			79852.3300	2575.8816	1333.0528	1777029.6615	31		
OYX			728520.8300	5059.1724	3114.4041	9699513.0273	144		
OYY			32378.4200	8319.6050	5545.9989	.30758E+08	4		
OYZ			126963.5000	12696.3500	4079.5343	.16642E+08	10		
TOTAL CASES = 1621									

Table F14

Criterion Variable -- IIC

FILE	NONAME	(CREATION DATE = 10/27/76)	DESCRIPTION OF SUBPOPULATIONS						
			VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE
			FOR ENTIRE POPULATION						
OIS			OYA			201248.4200	910.6281	1086.2974	1180042.0993
OIS			OYB			1845.3400	379.0680	223.5796	49987.8169
OIS			OYC			800.0000	800.0000	0	0
OIS			OYD			1412.3900	1412.3900	0	0
OIS			OYE			8952.9500	559.5594	778.7490	606449.9880
OIS			OYF			19948.3700	949.9224	1643.8022	2702085.8341
OIS			OYG			1303.9800	434.6600	568.5917	323296.5036
OIS			OYL			9370.3400	1561.7233	2089.9163	4367750.3323
OIS			OYH			42.5000	42.5000	0	0
OIS			OYI			75579.4500	1111.4625	1065.3011	1134866.4176
OIS			OYJ			6142.4300	1535.6075	1448.4327	2097957.1960
OIS			OYK			15821.6700	452.0477	836.5447	699807.0951
OIS			OYL			30095.2200	885.1535	678.6138	460516.7116
OIS			OYM			13229.3000	1202.6636	1162.7346	1351951.6908
OIS			OYN			174.5900	174.5900	0	0
OIS			OYO			2360.0600	2360.0600	0	0
OIS			OYU			2358.6900	1179.3450	1283.2645	1646767.6680
OIS			OYV			7121.5000	890.1875	1087.6976	1183086.0052
OIS			OYW			4640.0400	1546.6800	1537.7616	2364710.6473
TOTAL CASES =			221						

Table F15

Criterion Variable -- CC

FILE NONAME (CREATION DATE = 10/27/76)

DESCRIPTION OF SUBPOPULATIONS									
CRITERION VARIABLE CC BROKEN DOWN BY		VARIABLE	CODE	VALUE LABEL	SUM	MEAN	STD DEV	VARIANCE	N
FOR ENTIRE POPULATION									
	DIS	OYA			346551.6400	233.9984	309.0373	95504.0403	(1481)
	DIS	OYB			6702.4700	203.1052	335.2718	112407.1572	(33)
	DIS	OYC			18.0000	2.5714	.9759	.9524	(7)
	DIS	OYD			1070.7500	82.3654	102.7841	10564.5745	(13)
	DIS	OYE			51592.0300	200.7472	299.4923	89935.4151	(257)
	DIS	OYF			11249.7400	102.2704	128.7350	16572.7001	(110)
	DIS	OYG			13161.0800	329.0270	192.2263	36950.9343	(40)
	DIS	OYL			4042.3300	78.5063	102.8884	10545.6045	(52)
	DIS	OYF			2655.1700	85.6506	90.6690	8220.8585	(31)
	DIS	OXP			1595.2500	265.8750	114.8782	13196.9937	(6)
	DIS	OXR			17050.4500	77.8559	96.0613	9227.7645	(219)
	DIS	OXT			7105.4400	182.1908	303.0799	91857.4260	(39)
	DIS	OYJ			2532.7000	844.2333	1009.9884	1020072.4408	(3)
	DIS	OYU			83658.3100	390.9267	342.2006	117101.2430	(214)
	DIS	OZ			539.2000	89.8667	99.8814	9976.2867	(6)
	DIS	OYM			766.2500	255.4167	366.8868	134605.8958	(3)
	DIS	OY			106063.3300	541.1394	401.0247	160820.7926	(196)
	DIS	OYN			18397.3600	334.4971	269.7342	72756.5402	(55)
	DIS	OY6			2396.7500	66.5764	62.4370	3898.3785	(36)
	DIS	OY0			544.0000	136.0000	182.8469	33433.0000	(4)
	DIS	OYR			505.5500	252.7750	24.0770	579.7012	(2)
	DIS	OYT			68.8500	34.4250	20.4000	416.1612	(2)
	DIS	OYU			3329.7600	128.0677	92.3527	8529.0253	(26)
	DIS	OYI			9963.7100	80.3525	85.3091	7277.6381	(124)
	DIS	OY0			1503.1800	501.0600	381.6314	145642.5273	(3)
TOTAL CASES =									1481

Criterion Variable -- SRP

TOTAL CASES ■ 688

Criterion Variable -- DP

170

APPENDIX G:

INDIVIDUAL PAYMENTS COMPARISONS ON A NATIONAL LEVEL BY STATE AND DISTRICT

A file of all Docket Sheets since the inception of PL 91-646 was accessed and statistically analyzed, using programs from the Statistical Package for the Social Sciences (SPSS).

The file contained 12,855 separate payments for 7148 different applicants from 154 projects in 29 Districts and 37 states.

Overall, the results showed that, on the average, each applicant received \$3,411.32; each applicant received 1.7894 payments; the average payment value was \$1,896.86; and as of October 1976, \$24,384,084 had been spent on PL 91-646 relocation payments.

On a national level, irrespective of Division/District and location, several conclusions can be drawn from the available data.

Distribution of Payments

Table G1 shows that, generally, of any 100 payments, almost 40 (38.87) were made for fixed moving expenses for dwellings (FMD). It further shows that five payment types account for more than 80 percent of all payments made.

Distribution of Costs Among the Payments

Generally, of every \$100 spent on direct relocation payments, almost \$40 is spent on replacement housing (RH), and five payment types account for more than 80 percent of all expenditures (Table G2).

Summary of All Docket Sheet Payments Through October 1976

Table G3 summarizes all Docket Sheet data. The first column identifies the payment type; the second column shows how many payments of each type were made; the third column shows how much was spent on each payment type; the fourth column shows the average amount spent on an individual applicant payment, and is the result of dividing total dollars spent by the number of payments made; the fifth column shows what percent of all relocation costs was spent on each payment type and corresponds to Table G2 data; and the sixth column shows the percent of each payment type made and corresponds to Table G1 data.

Tables G4, G5, and G6 summarize Docket Sheet data by District. Tables G7, G8, and G9 summarize Docket Sheet data by state.

Table G1
Distribution of Payment Types

	<u>Percent of All Payments</u>
FMD	38.87
RH	12.61
CC	11.52
FMF	10.17
AMD	7.30 <u>80.47 percent of total</u>
DP	6.18
SRP	5.35 <u>92.0 percent of total</u>
FMB	2.37
IIC	1.72
AMB	1.23
AMF	1.17
SF	0.47
DLB	0.42
SB	0.37
DLF	0.13

Table G2
Distribution of Relocation Funds Among Payment Types

	<u>Percent of All Payments</u>	
RH	39.55	
FMF	18.53	
DP	9.13	
FMD	8.78	
SRP	6.78	<u>82.77 percent of all \$</u>
FMB	4.66	
AMD	3.83	<u>91.2 percent of all \$</u>
AMB	2.80	
DLB	2.27	
CC	1.42	
AMF	0.85	
IIC	0.83	
DLF	0.22	
SF	0.18	
SB	0.17	

Table G3

Summed Costs for Docket Sheets Through October 1976

Payment Type	No. Payments Made	Total \$ Spent	Average	\$%	Payments %
AMD	939	934250	995	3.83	7.30
AMB	158	683748	4328	2.80	1.23
AMF	151	207660	1375	0.85	1.17
FMD	5010	2142072	428	8.78	38.87
FMB	305	1136501	3726	4.66	2.37
FMF	1307	4518048	3457	18.53	10.17
DLB	54	552788	10237	2.27	0.42
DLF	17	52544	3091	0.22	0.13
SB	47	40607	864	0.17	0.37
SF	61	43674	716	0.18	0.47
RH	1621	9643999	5949	39.55	12.61
IIC	221	201248	910	0.83	1.72
CC	1481	346552	234	1.42	11.52
SRP	688	1654367	2405	6.78	5.35
DP	795	2226026	2800	9.13	6.18
Totals	12,855	\$24384084	\$3411		7148

Average Payments Per Applicant = $\frac{12855}{7148} = 1.80$

Average Cost Per Payment = $\frac{24384084}{12855} = 1896.86$

Average Cost Per Applicant = $\frac{24384084}{7148} = 3411.32$

Table G4

Summary of All Docket Sheet Payments Through October 1976, by District

	AMD	AMH	AMF	FMD	FMH	FMF	DLR	DLF	SR	SF	RM	IIC	CC	SRP	DP
2SK ALAS	2718	23743		451	4493	3265			245		12696			3771	4000
NYT ALRE	7955			376					235		8334		34	1224	2965
NYU RALT	727	6443	2555	404	3488	3158	3009	2947	575	2693	6229	452	391	2128	2679
NYU FTWT	722	993	397	384	2500	2952			293	444	2576	1179	128	1891	2311
NYV GALV				273											
NYD HAITG	1033	2735	259	442	3476	2689	2450	170	352	1100	2833	560	201	2154	2287
NYR KC	404	1469	1421	466	2980	3570	145		323	1082	3409	1111	78	1959	2555
NYO LA		11278		500							2759	2360	136		2500
NYZ LIRK		779		440					60						
NYF LOUL	731	4197	585	436	5171	3392	7344	1400	2660	276	4389	950	102	2041	2608
NYJ MEMP				123										180	
NYM MOKI	424	51966	81	396	2500	2500		10000			1085		255		2696
NYF NASH	664	467	737	402	2500	2500			208	311	3040	43	86	1912	2244
NYO NCD	4083										8320	1547	501		1240
NYV NFD				465											
NYK NFO	975	1380	230	389	3913	3447	2500				9422	435	329	1848	2175
NYT NODF	284		291	380							9710		90	2176	
NYT OMGM	2031	4881	3146	423	4227	5766	7329		515	649	11889	1536	182	1919	3442
NYO PHIL	778	1107	4784	431	3964	5570	2508	2419	327	451	5828	885	541	3246	3519
NYJ PITT		16500		376	7768	2500					897		844	1104	
NYA POUT	1064	268	3714	380	3218	2500	1422		211	496	12909	379	203	3644	3474
NYK PTD	687	7681	768	465	3323	3724			70	301	7971	175	67	2228	2641
NYR SACH	2028		1160	437	3000	3113				500	11499		253	4000	4000
NYN SAVA	305	301	435	389	2500	3748		212			5006	1203	334	2490	1746
NYA SFAT	841	2372	1043	422	4345	2500	8950	244	335		3904	800	3	1320	2429
NYL STLO	256	658	698	450	3911	2987	1367			98	3094	1562	79	1226	2083
NYI TULS	1012	172	8435	471	3071	3634		11250		161	5059	890	80	2260	3063
NYP VICK		300		419	425	2500					5851		266		
NYC WALL	1014	7039	5129	426	6510	3719	5332		449	500	5965	1412	82	2193	1873
ALL AVE	995	4328	1375	428	3726	3457	10237	3091	864	716	5949	911	234	2405	2800

Table G5

Average Payment Per Applicant

DISTRICT	TOTAL PAID	APPLICANTS PAID	AVERAGE PAYMENT PER APPLICANT
ALASKA	212926.59	41	5193.33
ALBUQUERQUE	105450.55	21	5045.26
BALTIMORE	2483458.30	1091	2276.31
FORT WORTH	864034.84	324	2666.77
GALVESTON	1090.00	4	272.50
HUNTINGTON	2106157.72	826	2549.83
KANSAS CITY	1981584.06	739	2681.45
LITTLE ROCK	2159.24	4	539.42
LOS ANGELES	23695.90	8	2962.36
LOUISVILLE	1945156.19	445	4371.14
MEMPHIS	1270.20	6	211.70
MORILE	140146.21	24	5839.43
NASHVILLE	191804.84	128	1498.48
NEW ENGLAND DIV	2170.00	3	723.33
NEW ORLEANS	947590.03	261	3630.61
NORFOLK	24230.14	9	2692.24
NORTH CENTRAL DIV	96579.93	16	6036.25
OMAHA	3443158.60	536	6423.80
PHILADELPHIA	2331596.84	1032	2259.30
PITTSBURG	33557.35	9	3728.59
PORTLAND	2103009.64	307	6850.19
ROCK ISLAND	1110508.42	185	6002.75
SACRAMENTO	106427.28	16	6651.71
SAVANNAH	547187.88	207	2643.42
SEATTLE	183053.23	64	2860.21
ST LOUIS	553426.05	242	2286.88
TULSA	2419497.43	488	4957.99
VICKSBURG	57501.63	19	3026.40
WALLA WALLA	365152.10	93	3926.37
AVERAGE	24384000.00	7148	3411.32

DOCKET SHEET DATA

THIS PAGE IS BEST QUALITY PRACTICABLE
FROM COPY FURNISHED TO DDQ

Table G6

Average Payment Per Applicant Ascending
Values Per District

DISTRICT	TOTAL PAID	APPLICANTS PAID	AVERAGE PAYMENT PER APPLICANT
MEMPHIS	1270.20	6	211.70
GALVESTON	1040.00	4	272.50
LITTLE ROCK	2155.28	4	539.42
NEW ENGLAND DIV	2170.00	3	723.33
NASHVILLE	191804.44	128	1498.44
PHILADELPHIA	2331546.88	1032	2250.30
BALTIMORE	2483456.30	1091	2276.31
ST LOUIS	553426.05	242	2286.88
HUNTINGTON	2106157.72	826	2549.23
SAVANNAH	547187.88	207	2643.42
FORT WORTH	864034.84	324	2666.77
KANSAS CITY	1981589.06	739	2681.45
NORFOLK	24230.14	9	2692.24
SEATTLE	183053.23	64	2860.21
LOS ANGELES	23698.90	8	2962.36
VICKSBURG	57501.63	19	3026.40
NEW ORLEANS	947590.03	261	3630.61
PITTSBURG	33557.35	9	3728.59
WALLA WALLA	365152.10	93	3926.37
LOUISVILLE	1945156.19	445	4371.14
TULSA	2419497.43	488	4957.99
ALBUQUERQUE	105950.55	21	5045.26
ALASKA	212926.59	41	5193.33
MORILE	140146.21	24	5839.43
ROCK ISLAND	1110508.42	185	6002.75
NORTH CENTRAL DIV	96579.93	16	6036.25
OMAHA	3443158.60	536	6423.80
SACRAMENTO	106427.28	16	6651.71
PORTLAND	2103009.64	307	6850.19
AVERAGE	24384000.00	7148	3411.32

DOCKET SHEET DATA

Table G7

Summary of All Docket Sheet Payments Through October 1976, by State

STATE	AMU	AMH	AMF	FMD	FMH	FMF	DLR	DLF	SR	SF	RH	IIC	CC	SOP	DP
ALABAMA	429	51966	H1	370	2500	2500	10000		245		1084		44	3771	2696
ALASKA	2714	27743		451					60		12646		77	480	4000
ARIZONA	242	779		344	2500	2500			60		6015				
CALIF	2026	11274	1160	454	3000	3113			367	670	7009	2360	17	4000	3250
COLORADO	2314	3720	1405	416	5559	5823	53275					2011	247	2067	3286
CONN				465											1240
DELAWARE	224	150	406	376	2500	4230		212			13440		213	2269	3555
FLORIDA	647	1012	570	477	1775	2750	10000		350		5424	226	40	2015	671
GA	1711	165	2290	500							5210		333		2102
INDIANA	704	510	835	411	3642	3701	2067		413	277	4682	263	43	1560	2175
IOWA	901	8120	973	463	2500	3662				301	2624		97	2000	2415
KANSAS	413	849	2626	484	3752	4219			500	1393	5051	415	87	2001	2546
KENTUCKY	710	4822	238	436	4000	2678	172	2500	3878	225	5139	473	99	2336	2391
LOUISIANA	947	1360	258	391	4375		2500				9215	435	330	1970	2175
MAINE	3966			445											
MARYLAND	294	30500	434	468	2500	3469			175		7147		40	1200	2544
MASSACHUSETTS	267	476	902	400	1804	2500			284	262	3717	43	132	2136	2252
MISSOURI	357	1523	780	455	3247	3055	1061		335		3045	1345	73	1781	2458
MONTANA	842	2372	1043	422	4345	2500	4450	224	520		3904	800	3	1320	2429
NEBRASKA	609	5708	4034	423	3749	6041					13331	109	103	1654	3563
NEVADA	842	1445	4704	434	5100	4344		2374		451	5366	1069	558	3560	3649
NEW HAMPSHIRE	464	377	505	342	2500	3650				629	5027	1439	341	2609	1941
NEW JERSEY	1444	3750	474	467	4773	3421	12633	300	2983		7475		137	1573	4000
NEW YORK	922	172	8435	468	3031	3580				382	3037	1281	219	2596	
NORTH CAROLINA	1616	197	3714	445	2500	2500	455	11250	211	169	4840	997	81	2177	3045
NORTH DAKOTA	649	2276	2555	410	3731	3657	2961	2891	520	3469	9851	745	69	2047	2048
OHIO	174			370	2500				520	2693	5336	573	472	2484	3043
OKLAHOMA	516	224	400	500	2500						934	50	75		
OREGON	645	993	344	386	2749	3076			241						
PENNSYLVANIA	244		243	340					243	444	2576	1179	128	1766	2311
RHODE ISLAND	1264	8534	4688	371	3652	4396	4911		442	500	13066	513	228	3686	3540
SOUTH CAROLINA	454	4309	313	434	3149	2553	200	170			3215	279	206	2764	2306
TENNESSEE	312	1314	446	465	3554	3544			70		9034	175	65	2533	2573
TEXAS	945	4324	1375	428	3726	3457	10237	3091	844	716	5449	910	234	2405	2400
UTAH	343	2480	0.45	474	4466	14.53	2.27	0.22	0.17	0.18	39.55	0.83	1.42	6.78	9.13
VERMONT	7.30	1.23	1.17	38.87	2.37	10.17	0.42	0.13	0.37	0.47	12.61	1.72	11.52	5.35	6.14

THIS PAGE IS BEST QUALITY PRACTICABLE
FROM COPY FURNISHED TO DDQ

Table G8

Alphabetic State Listing of Total Amounts Paid,
Number of Applicants Paid, and Average
Payment Per Applicant

STATE	TOTAL PAID	APPLICANTS PAID	AVERAGE PAYMENT PER APPLICANT
ALABAMA	138967.71	23	6042.07
ALASKA	212926.59	41	5193.33
ARKANSAS	47917.35	20	2395.87
CALIFORNIA	130126.18	24	5421.92
COLORADO	1328612.12	251	5293.28
CONNECTICUT	2170.00	3	723.33
DELAWARE	18204.88	3	6068.29
GEORGIA	91011.62	44	2068.45
IDAHO	134646.10	37	3639.08
ILLINOIS	28040.90	7	4005.84
INDIANA	812566.84	175	4643.24
IOWA	214930.65	52	4133.28
KANSAS	953542.33	207	4606.48
KENTUCKY	1008509.31	247	4083.03
LOUISIANA	698844.43	172	4063.05
MARYLAND	485.00	1	485.00
MICHIGAN	35691.63	10	3569.16
MINNESOTA	243372.89	41	5935.92
MISSISSIPPI	188735.93	115	1641.18
MISSOURI	1803237.98	810	2226.22
MONTANA	183053.23	64	2860.21
NEBRASKA	2110965.60	289	7304.38
NEW JERSEY	811776.22	414	1960.81
NORTH CAROLINA	449331.69	157	2861.99
NORTH DAKOTA	84326.43	11	7666.04
OHIO	1025559.45	285	3598.45
OKLAHOMA	2153869.88	444	4851.06
OREGON	253174.32	55	4603.17
PENNSYLVANIA	3623341.48	1665	2176.18
SOUTH CAROLINA	6844.57	6	1140.76
SOUTH DAKOTA	5575.00	3	1858.33
TENNESSEE	3881.20	4	970.30
TEXAS	1124026.69	420	2676.25
VIRGINIA	24230.14	9	2692.24
WASHINGTON	2080341.32	308	6754.35
WEST VIRGINIA	1698747.85	638	2662.61
WISCONSIN	652503.26	93	7016.16

TOTAL	24384088.77	7148	3411.32

Table G9

Listing By State of Total Amount Paid, Number Applicants Paid,
and Ascending Value of Average Payment Per Applicant

STATE	TOTAL PAID	APPLICANTS PAID	AVFRAGE PAYMENT PER APPLICANT
MARYLAND	485.00	1	485.00
CONNECTICUT	2170.00	3	723.33
TENNESSEE	3881.20	4	970.30
SOUTH CAROLINA	6844.57	6	1140.76
MISSISSIPPI	188735.93	115	1641.18
SOUTH DAKOTA	5575.00	3	1858.33
NEW JERSEY	811776.22	414	1960.81
GEORGIA	91011.62	44	2068.45
PENNSYLVANIA	3623341.48	1665	2176.18
MISSOURI	1803237.98	810	2226.22
ARKANSAS	47917.35	20	2395.87
WEST VIRGINIA	1698747.85	638	2662.61
TEXAS	1124026.69	420	2676.25
VIRGINIA	24230.14	9	2692.24
MONTANA	183053.23	64	2860.21
NORTH CAROLINA	449331.69	157	2861.99
MICHIGAN	35691.63	10	3569.16
OHIO	1025559.45	285	3598.45
IDAHO	134646.10	37	3639.08
ILLINOIS	28040.90	7	4005.84
LOUISIANA	698844.43	172	4063.05
KENTUCKY	1008509.31	247	4083.03
IOWA	214930.65	52	4133.28
OREGON	253174.32	55	4603.17
KANSAS	953542.33	207	4606.48
INDIANA	812566.84	175	4643.24
OKLAHOMA	2153869.88	444	4851.06
ALASKA	212926.59	41	5193.33
COLORADO	1328612.12	251	5293.28
CALIFORNIA	130126.18	24	5421.92
MINNESOTA	243372.89	41	5935.92
ALABAMA	138967.71	23	6042.07
DELAWARE	18204.88	3	6068.29
WASHINGTON	2080341.32	308	6754.35
WISCONSIN	652503.26	93	7016.16
NEBRASKA	2110965.60	289	7304.38
NORTH DAKOTA	84326.43	11	7666.04
TOTAL	24384088.77	7148	3411.32

APPENDIX H:

REGIONAL ANALYSIS IN CONJUNCTION WITH LINEAR REGRESSION

Projects and the relocations involved can be separated into three regional groups based on the District, the state, or the counties in which they take place. One theory is that the smaller the region in question, the greater the precision in classifying that region's physical and economic status. Using samples of states and counties, several models relating relocation payments to the regional characteristics of population density, arability of land, housing availability, and cost of living were tested. Each model estimates a dependent variable (average payments) as some linear combination of these regional characteristics. The use of linear regression analysis assumes that while these regional characteristics jointly determine the dependent variable payments, they do not influence one another. The regional characteristics are the independent variables.

The groups of models tested can be separated by using the type of payment as the dependent variable. First, average total payment is estimated for each state, then for each county, and finally, for specific classes of payments made within that county.

The models all take some linear form and use the same regional characteristics to estimate average payments; however, the values of these characteristics may differ subject to availability of data.

Samples of Payments

Three samples of relocation payments taken from two different sources were used. The first sample was average payments made by state, and the second was average payments by county. These were taken from Payments -- Public Law 91-646 During FY 1976, by State, by District.* The summaries of these payments provided state totals. County totals were determined by locating the projects within counties. When projects were contained in two or more counties, the same payment figures were entered for each county. This provided samples for the first two groups of models and included samples of 23 states and 62 counties. They estimate only average total payment by region.

The summary for 1976 and other annual summaries include data from both active and final reports, and therefore reflect different degrees in completion of the relocation process. Active and final reports are not designated and therefore cannot be separated; in addition, there is some double counting in these summaries.

* Computer Listings 5N16C and 5N15C available from the Engineering Data Processing Center (EDPC), Washington, D.C.

The third sample is a random sample of payments from final reports in 17 CE Districts from FY72 through FY76. County figures were determined as above by locating projects. In addition to total averages, five other classes of payments served as dependent variables. Residential Moving Expenses (REM) included in its average actual moving cost (AMD) and fixed moving cost (FMD) for dwellings. Business Moving Expenses (BEM) and Farm Moving Expenses (FEM) were averages of actual and fixed moving expenses plus the appropriate searching expenses (SB, SF). Owner Housing Payments (OHP) included payments for Replacement Housing (RH) and Increased Interest Costs (IIC). Tenant Housing Payments (THP) included payments for rent (RP) and down payment (DP). All these dependent variables are averages of the number of applicants receiving such payments.

Independent variables were based on both the opinions of CE estimators involved in relocation and on the availability of data. All independent variables used describe some aspect of the region. Density was a measure of the urban nature of the region and could reflect price competition or cost reduction due to agglomeration. Arability measured the farm use value of land. The difficulty of finding a new home and the cost of renting or purchasing available housing provided a measure of housing availability. Gross monthly rent represented the relative cost of living, and median income represented the standard of living.

In the models estimating state average payments, the percentage of the population classified as urban was substituted for density, and consumer price indices for the four Bureau of Commerce regions were divided by the national consumer price index (CPI) to provide a relative cost of living measure.

The Bureau of the Census City County Data Book* provided the county data from the 1969 to 70 census. The Statistical Abstract of the United States for 1975, and the Monthly Labor Review, provided the state demographic and agricultural data.⁴

* As on file on the CDC 7600 computer at the Lawrence Berkeley Laboratory, Berkeley, California.

⁴ Statistical Abstract of the United States (U.S. Bureau of the Census, 1975 96th edition) Table No. 21, Tables 1036-37, pp 614-615; Monthly Labor Review (U.S. Bureau of Labor Statistics, December 1975), Table No. 24.

The following proxies were used as the independent variables:

State

Density (D):	Percentage of population classified urban by <u>Statistical Abstract of the United States</u>
Arability (A):	Value of farm product in the state divided by the number of acres devoted to farming
Cost of living (C):	Cost of living (from Bureau of Commerce four regions) divided by national CPI

County

Density (D):	Population per square mile
Arability (A):	Average value of farm produce per farm divided by average size of farm in acres
Housing Availability (H):	Total housing less occupied housing divided by population
Cost of living (R):	Gross monthly rent
Standard of living (I):	Median income.

Gross rent and median income were used to measure the cost of living because they seemed to be the best alternative to a cost of living index. The national consumer price index is based on a sample of metropolitan areas and is provided for a group of standard metropolitan statistical areas (SMSA), for four regions, or for the nation, but not for states or counties.

The following section briefly describes the models and their performances in estimating average payments. The statistical results of the regressions are shown in Table H1.

The first model tested estimated average total payments by states. Independent variables were density, arability, and the relative cost of living. This regression did not produce a high correlation coefficient (R),* but the F score** was significant at less than the .05 level.

* Correlation coefficient is a measure of the variance in the dependent variable payments explained by, or associated with, the independent variables. It can be read as a percent.

**The F statistic provides a test of whether the independent variables influence the value of the dependent variable. The significance level is the probability of rejecting the following hypothesis: jointly, the variables have no influence on the dollar amount of payments.

All coefficients had mathematical signs opposite what was expected. All were significantly different from zero at the .20 level, and three of the four were different at the .10 level. The results showed that availability of land depresses a state's average payment, urban conditions increase payments, farms receive lower payments than business, and more businesses relocated in urban areas. The fact that increases in the relative cost of living depress payments is difficult to explain.

To improve the estimate, county data were used. A regression with data from 62 counties relating average total payment to density, availability, housing availability, and rent produced a very poor fit; R^2 (unadjusted) = .05668, F score was significant only at the .50 level, and T tests* showed that only rent and the constant could be considered significant, even at the .20 significant level.

Samples for both the above regressions were taken from government summaries. Researchers felt that the inclusion of active and final reports in the sample introduced unnecessary and detrimental randomness. Therefore, a random sample of government Docket Sheets (only final reports) was used to eliminate this problem. The sample size was reduced to 26 counties. Researchers tried to find a relationship between average total payments and the independent variable; however, the F test and the correlation coefficient indicated the lack of meaningful relation.

Upon disaggregation of payments, however, the curve fits improved and may be considered good for four of five payment types: residential and farm expenses, and owner housing and tenant housing payments. For the last two, all coefficients are significantly different from zero at the .05 level. In the residential and farm expense equations, the coefficient for housing availability is positive and this is contrary to expectations. However, this coefficient is not significantly different from zero.

Introduction of the independent variable (median income) did not improve estimates except in the case of business payments; however, with the introduction of business payments, all coefficients became significantly different from zero. The correlation coefficient (adjusted R^2 = .40, compared with .19) and the F test (significant at .009, compared with .085) indicated an improved and meaningful fit. During this process, some sign changes occurred in the coefficients. Density now had a positive influence on payments. Availability, housing, and rent all had negative influences, and income had a positive influence. The plot of residuals** was more dispersed than in the earlier equation for BEM

* T test is analogous to the F test, except it tests each coefficient independently.

**The residual is the difference between the estimated value of the dependent variable for a given county or state and the actual value of that dependent variable.

(Table H1). Multicollinearity* may have had a role in these overall results, since income and rent are correlated with an $R = .855$.

Conclusion

While it cannot be said conclusively that county data, rather than state data, provide linear regression with a better fit, data from final reports do behave more predictably than data including both active and final reports. Attempts to estimate specific types of payments, rather than average total payments, also improve the estimate.

Density, arability, housing availability, and rent are variables to consider when estimating relocation payments for a project, although they are probably not the only variables to consider. The results of the regressions (Table H2) indicate density influences payments inversely, while arability, rent, and housing availability influence payments directly. The influence of these variables differs across payment types. This means that the estimator should consider the proportion of each type of applicant (farm, business, etc.).

The accuracy of these equations is considerably doubtful. Since each relocation is unique, a methodology for using these equations is not offered. It is recommended, however, that, if the estimator uses a national mean payment, this mean should be adjusted for the influence of these variables.

* Linear regression analysis assumes changes in any independent variable will not influence any other independent variable. When the independent variables influence one another, they are no longer independent and this is multicollinearity. When multicollinearity is strong, results are misleading.

Table H1

Residuals for Business Moving Expenses

WITHOUT INCOME OBSERVATION	Y VALUE	Y ESTIMATE	RESIDUAL	-250	0.0	250
1.	854.0000	1027.794	-173.7947			
2.	451.0000	415.9540	35.0460			
3.	451.0000	407.1112	43.8888			
4.	2144.0000	975.1748	1168.8252			
5.	620.0000	458.1714	161.8286			
6.	620.0000	768.1424	-148.1424			
7.	482.0000	768.1224	-286.1224			
8.	702.0000	485.1744	216.8256			
9.	455.0000	518.1509	-63.1509			
10.	1371.0000	911.4703	459.5297			
11.	1371.0000	1027.281	343.7191			
12.	331.0000	849.7600	-518.7600			
13.	457.0000	575.1157	-118.1157			
14.	460.0000	418.4427	41.5573			
15.	472.0000	621.0530	-149.0530			
16.	472.0000	723.2344	-251.2344			
17.	460.0000	709.0391	-249.0391			
18.	430.0000	259.0414	170.9586			
19.	431.0000	637.0059	-206.0059			
20.	453.0000	654.2311	-201.2311			
21.	453.0000	403.1914	49.8086			
22.	375.0000	441.7462	-66.7462			
23.	375.0000	421.3929	48.3929			
24.	470.0000	-64.1655	534.1655			
25.	437.0000	594.7212	-157.7212			
26.	635.0000	644.0243	-49.0243			
SD = 397.78491						
WITH INCOME OBSERVATION	Y VALUE	Y ESTIMATE	RESIDUAL	-250	0.0	250
1.	854.0000	290.1059	563.8941			
2.	451.0000	1184.059	-733.059			
3.	451.0000	1234.220	-783.220			
4.	2144.0000	1410.914	733.086			
5.	414.0000	49.19374	364.8062			
6.	500.0000	520.2557	-20.2557			
7.	482.0000	188.6631	293.3369			
8.	392.0000	-81.70945	473.7095			
9.	450.0000	-6.605973	456.6059			
10.	1371.0000	1210.793	160.207			
11.	1371.0000	1253.072	117.9278			
12.	331.0000	2461.211	-1930.211			
13.	457.0000	475.7218	-18.7218			
14.	440.0000	568.7701	-128.7701			
15.	472.0000	1314.774	-842.774			
16.	472.0000	1162.451	-690.451			
17.	440.0000	1947.329	-1507.329			
18.	430.0000	-542.7136	972.7136			
19.	431.0000	350.4246	80.5754			
20.	451.0000	149.2533	301.7467			
21.	451.0000	149.1845	301.8155			
22.	375.0000	245.1099	129.8901			
23.	375.0000	-146.2608	521.2608			
24.	470.0000	-73.3279	543.3279			
25.	417.0000	309.0860	107.9140			
26.	635.0000					
SD = 341.07129						

NOTE - (*) INDICATES ESTIMATE CALCULATED WITH MEANS SUBSTITUTED
INDICATES POINT OUT OF RANGE OF PLOTTHIS PAGE IS BEST QUALITY PRACTICABLE
FROM COPY FURNISHED TO DDQ

Table H2

Results of Regression Analysis

RESULTS OF REGRESSION ANALYSIS									
DEPENDENT VARIABLE	DENSITY	AREA-HILITY	HOUSING COST OF LIVING	MEDIAN INCOME	CONSTANT	N	F-SCORE	SIGNIF	R ² ADJ R ²
TOTAL	= 41.4950 (1.352)*	-16.846A (-1.779)*	-465.257C (-1.944)*		+49269.681 (2.011)*	23 S	3.9051	.025	.3814 .2838
TOTAL	= -1.234U (-.575)	-3.253A-963B (-.704)	26.136H (-.999)	+26.136H (1.416)*	+3292.333 (2.168)*	62 C	.8562	.496	.0567 -.0095
TOTAL	= -.043U (-2.493)*	+22.120A+515H8 (2.526)*	1.757I (1.757)*	+36.143R (1.566)*	-2322.410 (-.784)	26 C	2.0366	.128	.2894 .1473
WFM	= -.070U (-2.902)*	+1.340A+3606.269H (1.513)*	1.215 (1.215)	+9.850H (4.221)*	-499.671 (-1.667)*	26 C	5.3864	.004	.5186 .4223
PFM	= -.000U (.059)	-4.215A-12070.37H (-1.912)*	1.633I (1.549)	+3.188H (.549)	+41084.488 (1.453)*	26 C	2.3885	.085	.3233 .1879
FFM	= -.003U (-3.333)*	+12.456A+4164.006H (1.705)*	.374 (.374)	+46.664P (2.423)*	-1957.393 (-.791)	26 C	3.4245	.027	.4065 .2878
QHP	= -.031U (-2.911)*	+10.289A+21823.36H (3.670)*	2.322I (2.322)*	+22.890P (3.094)*	-5.1.160 (-.992)	26 C	4.0418	.015	.4470 .3364
THP	= -.182U (-3.564)*	+51.850A+86743.34H (3.878)*	1.936I (1.936)*	+71.933R (2.042)*	-8198.260 (-1.812)*	26 C	4.3691	.011	.4663 .3596
AFM	= .045U (2.579)*	-16.009A-29990.51H (-3.533)*	-59.709R (-3.368)*	+5901 (-2.652)*	+2423.596 (3.201)*	26 C	4.2400	.009	.5274 .4030

T-VALUES ()

*=.05 SIGNIFICANCE

*=.10 SIGNIFICANCE

*=.20 SIGNIFICANCE

N=SAMPLE SIZE C OR S DESIGNATE COUNTY AND STATE

THIS PAGE IS BEST QUALITY PRACTICABLY
FROM COPY FURNISHED TO DDO

APPENDIX I:

EQUATION FOR CALCULATING CONFIDENCE INTERVALS

This appendix presents the equation for calculating confidence intervals and a tabulation (Table II) of calculated intervals for FY77 to FY80.

$$\bar{y} + a_1 (x - \bar{x}) \pm s_e (t_{\alpha/2, n-2}) \sqrt{1 + 1/n + ([x - \bar{x}]^2 / \sum [x - \bar{x}]^2)}$$

where

\bar{y} = average of the yearly average payments for FY72 through FY76

a_1 = term found from regression analysis (see Table I-1 for a value)

\bar{x} = 1974, average year value for the years 1972 through 1976

s_e = standard error of the estimate

$$= \frac{1}{n-2} \sum \{y_i - [\bar{y} + a_1(x_i - \bar{x})]\}^2$$

t = t values found from table

percentiles of the t distribution

α = .05, (for $(1-\alpha)$ confidence intervals)

n = number of historic data points

x = fiscal year (FY78=1978) that confidence intervals (UB, LB) will be calculated for

x_i = data point value of independent variable for fiscal year i

y_i = average payments for year i

Table II
Confidence Intervals for National Values

FISCAL YEAR	\bar{y}	a_1	S_E		77	78	79	80
AMD	946.2	102.60	204.17	UB*	2195	2444	2709	2985
				LB	313	270	209	139
FMD	424.0	6.00	9.20	UB	484	497	510	524
				LB	400	399	398	396
AMB	5858.4	1937.80	6758.27	UB	42835	49594	56912	64600
				LB	-19491	-22374	-25818	-29630
FMB	3629.2	200.90	294.75	UB	5545	5949	6378	6820
				LB	2919	2917	2891	2850
AMF	972.6	141.50	170.57	UB	2184	2447	2724	3011
				LB	610	631	636	633
FMF	3357.2	123.90	68.48	UB	4045	4218	4396	4578
				LB	3413	3488	3558	3624
SB	675.2	135.00	614.80	UB	3915	4489	5113	5771
				LB	-1755	-2059	-2413	-2801
SF	643.4	44.90	223.54	UB	1809	2013	2236	2471
				LB	-253	-367	-500	-645
IIC	992.4	-91.60	196.56	UB	1624	1673	1737	1813
				LB	-188	-421	-669	-927
CC	222.2	45.20	28.93	UB	491	557	628	695
				LB	225	249	268	291
SRP	1635.4	626.70	377.41	UB	5256	6152	7079	8027
				LB	1776	2132	2459	2765
DP	2702.8	318.50	65.80	UB	3962	4327	4698	5073
				LB	3355	3627	3892	4155
RH	5389.2	1373.70	336.71	UB	11063	12677	14319	15978
				LB	7958	9091	10197	11284
TOTAL	3190.8	838.10	171.58	UB	6496	7457	8431	9415
				LB	4914	5629	6331	7023

* UB = Upper Bound
LB = Lower Bound

CERL DISTRIBUTION

Chief of Engineers
ATTN: DAEN-REP (3)
ATTN: DAEN-RO
ATTN: DAEN-ASI-L (2)

U.S. Army Engr Divisions
ATTN: Chief, Real Estate
Lower Mississippi Valley
Missouri River
New England
North Atlantic
North Central
North Pacific
Ohio River
South Atlantic
South Pacific
Southwestern

U.S. Army Engr Districts
ATTN: Chief, Real Estate
Memphis
New Orleans
St. Louis
Vicksburg
Omaha
Kansas City
New York
Norfolk
Baltimore
Seattle
Portland
Walla Walla
Huntington
Louisville
Nashville
Jacksonville
Mobile
Savannah
Los Angeles
Sacramento
Albuquerque
Fort Worth
Little Rock
Galveston
Tulsa

Defense Documentation Center (12)

US Government Printing Office (2)

Poskus, Uldis R

Real estate cost estimating techniques for PL 91-646 relocation costs /
by U. R. Poskus , G. D. Stamas , S. P. Stawarz. -- Champaign, IL : Construc-
tion Engineering Research Laboratory ; Springfield, VA : available from NTIS ,
1979.

189 p. ; 27 cm. (Technical report ; P-103)

1. Eminent domain. 2. Uniform Relocation Assistance and Real Property
Acquisition Policies Act of 1970. 3. Relocation (housing) -- costs. I.
Stamas, George D. II. Stawarz, Steven P. III. Title. IV. Series: U.S.
Army Construction Engineering Research Laboratory. Technical report ; P-103.

END 11/79